

**Inventory of Native and
Non-native Vegetation on
John Muir National Historic Site,
Eugene O'Neill National Historic Site,
and Port Chicago National Monument**

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REFERENCES**181****APPENDICES****Introduction**

The following report is a dynamic representation of several Bay Area properties spanning several different habitat types. The included lists represent the species richness of the study sites, based on over 500 combined hours spent in the field. Yet, no matter how thorough the investigation, this work will fall short of describing every species present in this ever-changing environment. There are many plant species reported for parts of the areas surveyed that were absent (or simply unseen) in 2002. This was the case with the threatened, endemic Mount Diablo fairy lantern (*Calochortus pulchellus*), or the inconspicuous Naked broom-rape (*Orobanche uniflora*), but both are more than likely still present on Mt. Wanda. On the other hand, many new records for the area and rediscoveries occurred. This includes the Foothill larkspur (*Delphinium hesperium* ssp. *hesperium*), which has not been reported in the area since John Muir noted it in his journal around the beginning of the 20th century, and was one of many species believed to have been extirpated due to extensive grazing on the John Muir National Historic Site property that lasted until 1992.

The purpose of this study was to document the plant species richness of three National Park Service properties: John Muir National Historic Site (JOMU) in Martinez, California; Eugene O'Neill National Historic Site (EUON) in Danville, California; and Port Chicago National Monument (POCH), which is located on the Naval Weapons Station in Concord, California. JOMU includes three separate sub-properties: John Muir's gravesite, house property, and the 330-acre Mt. Wanda property formerly owned by Muir and his family. Comprehensive plant species lists were compiled for all three sites, with locational data and flowering time included in as much detail as

possible. Habitat types were determined based on established concepts of California plant habitats, specifically those used by Hunter et al. (1993), and we describe them in detail below with respect to the three properties. This study aims to develop and promote a strong understanding of the plant resources and to give preliminary management suggestions to aid in the creation of full management plans for the National Park Service properties in the East Bay.

Survey Methods

Vegetation surveys were performed from February through September of 2002. An initial assessment of all existing data for the Mt. Wanda site was performed. This included the 1992-1993 survey of Mt. Wanda by Hunter et al. and various official and unofficial lists compiled by the staff at JOMU. From these data a master list of all previous reports of plant species was created to aid in the survey process. Over the course of the season, this list was then updated with additional species and locational information. For all other sites, data lists were compiled as species were found as no extensive lists had been previously prepared.

Areas were systematically surveyed on a regular basis. Plant identification was performed on site as much as possible to prevent error caused by drying and crushing in transport. This also allowed us to examine the entire plant while fresh and prevent the need for picking rare and endangered plants. All taxonomy and nomenclature is based on the Jepson Manual for Higher Plants in California (Hickman et al. 1993). Locational data and flowering time were determined by direct field observations. Difficult species determinations were aided by use of the University and Jepson Herbaria at the University of California at Berkeley in combination with the CalFlora Database (www.calflora.org). A digital camera (Nikon CoolPix 775) was used in the field to capture representative photos of vegetation types and rare plants. These images are included on a CD provided to the NPS. GPS data also was recorded in the field for locations of rare plant and target non-native species. From these data, a series of maps have been produced which represent the collected data (Appendices 1-4).

Some time was spent relocating a series of vegetation transects that had been installed as part of the 1993 study. All of the grassland transects and some of the woodland transects were relocated and mapped with a Garmin GPS unit and monumented with new flagging. These transects have also been mapped for future relocation and remeasurement (Appendix 5).

Finally, the many horticultural varieties located on the JOMU house property were incorporated into the survey list. For this we consulted and relied heavily upon the extensive knowledge of the JOMU maintenance staff and their records of both historic and recent plantings. It should be noted that the number of horticultural species found at JOMU is continually fluctuating as the maintenance staff augments and develops the gardens of the historic site.

Botanical Survey Results

Vegetation surveys detected 468 plant species on all 3 properties, 357 of which were naturalized, including both native and introduced species. On Mt. Wanda alone, we found 283 species representing 66 families. At the John Muir House site 225 species were documented representing 75 families, (many of those under cultivation). The John Muir Grave site had 94 species from 45 different families. At EUON, 172 species were found from 55 families. At POCH we found only 55 species from 20 families, which is not surprising considering the extremely small piece of land on which the monument sits. As taxonomic ranks are not inherently comparable, these counts serve only as a vague estimate of overall diversity in these areas. Overall, 55% of the plants we found were native to California. 49 of the introduced species found are listed as noxious weeds by either the California Exotic Pest Plant Council (CalEPPC), or the California Department of Food and Agriculture (CDFA).

While this survey thoroughly documents all species observed during the growing season of 2002, there are most certainly species that remain to be discovered, especially on the relatively large Mt. Wanda property. For Mt. Wanda, it can be said

with some certainty that following a wildfire (or controlled burn) native species now dormant in the seed bank could, at least temporarily, reestablish some of the natural populations that were present before grazing and the onslaught of introduced grasses. Since grazing was stopped on Mt. Wanda in 1992, several species not found during the study conducted by Hunter et al. in 1992 have been reestablished, such as Red maids (*Calandrinia ciliata*), Slender phlox (*Phlox gracilis*), Bicolored linanthus (*Linanthus bicolor*), and Cream sacs (*Castilleja rubicundula* ssp. *lithospermoides*). The effects of intensive grazing can still be observed, however, both in the contour of the landscape and in the abundance of invasive plants. The majority of native species were found in more selective habitats (e.g., mixed evergreen forest, chaparral, and blue oak woodland), while the non-native species tended to occur in disturbed areas and open grassland, and thoroughly dominated these habitats.

Vegetation Types

Prior to this survey, adequate descriptions of vegetation types for Mt. Wanda were already available in Hunter et al. (1993). These types include grassland, blue oak woodland, mixed evergreen forest, chaparral and ruderal. Initial surveys were performed to verify this assessment. These vegetation types also were used to describe other areas at JOMU, EUON, and POCH, while new categories were designated for vegetation types not previously surveyed. These other vegetation types (riparian, brackish marsh, orchard and garden) are described below.

Grassland

This vegetation type consists of mostly unshaded areas dominated by introduced grass and thistle species. It typically occurs in areas on top of Mt. Wanda as well as south-facing hillsides. Dominant species include: Wild oats (*Avena fatua*), Black mustard (*Brassica nigra*), Rip-gut brome (*Bromus diandrus*), Soft chess (*Bromus hordeaceus*), Italian ryegrass (*Lolium multiflorum*), Foxtail barley (*Hordeum murinum* ssp. *leporinum*), Italian thistle (*Carduus pycnocephalus*), and Yellow star-thistle (*Centaurea*

solstitialis). Other significant species include Common fiddleneck (*Amsinckia menziesii* var. *intermedia*), Milkthistle (*Silybum marianum*), Cut-leaved geranium (*Geranium dissectum*), Crane's bill geranium (*Geranium molle*), various Filaree (*Erodium* spp.), Field bindweed (*Convolvulus arvensis*), and Spring vetch (*Vicia sativa*). This vegetation type covers roughly 117 acres of Mt. Wanda (Hunter et al. 1993), and is also present to a lesser degree at EUON.



Blue Oak Woodland

This vegetation type is represented by a diverse assemblage of trees and herbaceous plants and has a distinct well-developed overstory and understory. Blue Oak Woodland typically occurs in north-facing areas of Mt. Wanda and in upper portions of drainages. The dominant species in the overstory is Blue oak (*Quercus douglasii*), with Valley oak (*Quercus lobata*), Black oak (*Quercus kelloggii*), and California buckeye (*Aesculus californica*), also well represented. Common understory species include Poison oak (*Toxicodendron diversiloba*), Ripgut brome (*Bromus diandrus*), Pacific snakeroot (*Sanicula crassicaulis*), Spring vetch (*Vicia sativa*), Canyon nemophila (*Nemophila heterophylla*), Chickweed (*Stellaria media*), Miners' lettuce (*Claytonia perfoliata*), Goose grass (*Galium aparine*), Italian thistle (*Carduus pycnocephalus*), Hedgehog dogtail (*Cynosorus echinatus*), Wild oats (*Avena fatua*), and Field hedge parsley (*Torilis arvensis*). This vegetation type covers roughly 155 acres of Mt. Wanda (Hunter et al. 1993).



Mixed Evergreen Forest

This vegetation type consists of more dense forest than that of Blue Oak Woodland. The overstory is significantly more developed than the understory in this vegetation type. Mixed Evergreen Forest generally occurs in lower portions of drainages and at the bottom of north-facing slopes. Dominant tree species include Coast live oak (*Quercus agrifolia*), and California bay (*Umbellularia californica*), with Black oak and California buckeye also occurring frequently. Understory species include: Poison oak, Maidenhair fern (*Adiantum jordanii*), California coffeeberry (*Rhamnus californica*), Wood fern (*Dryopteris arguta*), California blackberry (*Rubus ursinus*), Hedge nettle (*Stachys ajugoides* var. *rigida*), and Torrey melic (*Melica torreyana*). This vegetation type covers roughly 55 acres of Mt. Wanda, (Hunter et al. 1993), and includes the few riparian zones found on the mountain. This vegetation type is found at Mt. Wanda and is a significant component of the landscape of EUON as well. The forested area of EUON also contains a steep slide region with a seep that keeps the ground wet year round. Because of the unique nature of this spot, many interesting plants such as Yerba buena (*Satureja douglasii*), Giant horsetail (*Equisetum telmateia* ssp. *braunii*), and Solomon's seal (*Smilacina stellata*) grow here and nowhere else on the property.



Chaparral

This vegetation type consists of dry scrub with some herb and tree components. Chaparral is only found in isolated patches on the north side of Mt. Wanda. Dominant species include Chamise (*Adenostoma fasciculata*), California sagebrush (*Artemisia californica*), Toyon (*Heteromeles arbutifolia*), Sticky monkeyflower (*Mimulus aurantiacus*), Coyote mint (*Monardella villosa* ssp. *villosa*), and Deer weed (*Lotus scoparius*). Other significant species include: Indian paintbrush (*Castilleja affinis*), Woolly owl's clover (*Castilleja foliolosa*), Hop tree (*Ptelea crenulata*), Poison oak, Coast live oak, and Coyote brush (*Baccharis pilularis*). This vegetation type covers roughly two acres of Mt. Wanda (Hunter et al. 1993).



Riparian

At Mount Wanda and EUON, riparian areas occur within the Mixed Evergreen Forest vegetation type. However, at the JOMU Gravesite and House properties, the riparian areas are significantly different in species composition and are a distinct vegetation type. Riparian areas consist of stream banks, bordering areas, and the streams themselves. The plants found in these areas are a mix of tree, shrub and herbaceous species. Dominant plants include California black walnut (*Juglans californica* var. *hindsii*), California sycamore (*Platanus californicus*), Harding grass (*Phalaris aquatica*), Giant reed (*Arundo donax*), Red willow (*Salix laevigata*), Arroyo willow (*Salix lasiolepis*), Periwinkle (*Vinca major*), Himalaya berry (*Rubus discolor*), and Poison oak.



Brackish Marsh

This area occurs only at POCH and consists of a few short stretches of shoreline free rubble and debris that are subject to regular tidal fluctuations. This unique vegetation type harbors many different species found nowhere else in this survey. Dominant plants include Three square (*Scirpus americanus*), Low clubrush (*Scirpus cernuus*), California bulrush (*Scirpus californicus*), Marsh gumplant (*Grindelia stricta* var. *angustifolia*), Wire rush (*Juncus balticus*), and Perrenial pepperweed (*Lepidium latifolium*), on the higher margins of the zone.



Ruderal

This is more of a habitat than a true vegetation type, but a significant number of plants occur in these areas, and sometimes do not occur elsewhere. Ruderal areas are disturbed places that include roads, trails, road cuts, and other areas created and consistently impacted by human use. This also includes areas that are regularly disked or mowed as part of a fire management regime. These ruderal areas favor fast growing annuals and plants that can withstand general disturbance and rapid desiccation of surrounding soil. Significant plants include Little hop clover (*Trifolium dubium*), Perrenial pepperweed, Bellardia (*Bellardia trixago*), Pineapple weed (*Chamomilla suaveolens*), Prickly sow thistle (*Sonchus asper*), Bristly ox-tongue (*Picris echinoides*), and Filaree.



Orchard

At the JOMU Gravesite and House properties, these areas are agriculturally developed, maintained, and disked historic fruit orchards. The plants found in these areas, other than those cultivated, consist entirely of weeds and other herbaceous introduced plants. Dominant plants include Foxtail, Bermuda grass (*Cynodon dactylon*), Cut leaved geranium, and Filaree.

On Mt. Wanda there are two significant locations of remnant orchards. One is a small set of Apricot trees (*Prunus armeniaca*), on the southeast side of Mt. Wanda, which is mostly given over to grassland at the time of this writing. The other is a large Olive orchard (*Olea europea*) at the top of the grassland hillside south of the Strain ranch property. These olives should be of some concern to the park as the CalEPPC considers them a weedy species, and there is already extensive secondary growth of olive saplings spreading into the mixed evergreen forest type adjacent to the orchard. Neither of these orchards is currently maintained.

At EUON, there are both newly planted and remnant orchards. The new orchards are maintained and disked, while some of the older orchards are left untouched, which is resulting in establishment of different dominant species. Dominant plants in disked areas include Common groundsel (*Senecio vulgaris*), Field bindweed, Puncturevine (*Tribulus terrestris*), Chickweed, Redmaids, Scarlet pimpernel (*Anagallis arvensis*), and Filaree species. Dominant plants in undisked areas are similar to the grassland described above for JOMU, with addition of Spring vetch, Hedgehog dogtail, and Harding grass.



Garden

The garden type is a conglomerate type that is not so much dominated by single species of plants as it is by the unmistakable human aesthetic influence. This habitat is marked by well-groomed hedges surrounding regularly watered areas, usually within the proximity of a structure or a parking area. These areas tend to be mostly non-native individuals that have been carefully selected for the site, as well as a scattering of weed species that do well at growing between the propagated plants. There are often open patches of soil found within and around the garden plot. This habitat was found around the historic Muir house at JOMU and the Tao house at EUON.



Threatened/Endangered Species and Locally Rare Species

Mt. Wanda is home to several seriously threatened species, most notably the Mt. Diablo sunflower (*Helianthella castanea*) which is currently listed as a “species of concern” by the U.S. Fish and Wildlife Service (USFWS). California black walnut (*Juglans californica* var. *hindsii*), which shares the “species of concern” status, is actually quite abundant at both JOMU and EUON. This is partially due to its existence in its natural riparian habitat as well as in relict orchard areas, where it was used extensively as rootstock for English walnut (*Juglans regia*). In these orchard areas many California black walnut trees have grown up and flourished long after their English walnut grafts have died.

All three properties contain locally rare species (based on Lake’s *Unusual and Significant Plants* list published by the California Native Plant Society and the CNPS Rare Plants Inventory), all of which are listed below. GPS coordinates were recorded for several species, (see map in Appendix 1 for exact locational data).



Photo: *Calochortus venustus* Butterfly mariposa lily

Table 1: T/E and Locally Rare Species

Latin Name	Common Name	Local Status	Federal Status	Property
<i>Arbutus menziesii</i>	Madrone	Uw		EUON
<i>Asclepias cordifolia</i>	Heart-leafed milkweed	Ua1		JOMU: Wanda
<i>Calochortus albus</i>	White globe lily	Uw		EUON
<i>Calochortus venustus</i>	Butterfly mariposa lily	Uw		JOMU: Wanda
<i>Carex aquatilis</i> var. <i>dives</i>	Sitka sedge	Ua2		JOMU: House
<i>Castilleja rubicundula</i> ssp. <i>lithospermoides</i>	Cream sacs	Ub		JOMU: Wanda
<i>Clarkia affinis</i>	Chaparral clarkia	Uw		JOMU: Wanda; EUON
<i>Collinsia sparsiflora</i> var. <i>sparsiflora</i>	Blue-eyed mary	Ub		JOMU: Wanda
<i>Deschampsia cespitosa</i> ssp. <i>holciformis</i>	Tufted hairgrass	Ub		POCH
<i>Deschampsia elongata</i>	Slender hairgrass	Uw		EUON
<i>Dicentra formosa</i>	Bleeding heart	Ua1		JOMU: Grave
<i>Epilobium ciliatum</i> ssp. <i>ciliatum</i>	Willow herb	Uw		JOMU: House; EUON
<i>Equisetum telmateia</i> ssp. <i>braunii</i>	Giant horsetail	Uw		JOMU: Grave; EUON
<i>Grindelia stricta</i> var. <i>angustifolia</i>	Marsh gum plant	List 4		POCH
<i>Helianthella castanea</i>	Mt. Diablo sunflower	List 1B, RED-223	Species of Concern	JOMU: Wanda
<i>Jaumea carnosa</i>	Fleshy jaumea	Uw		POCH
<i>Juglans californica</i> var. <i>hindsii</i>	California black walnut	List 1B, RED-333	Species of Concern	JOMU: Wanda, House, Grave; EUON
<i>Linaria canadensis</i>	Blue toadflax	Ub		JOMU: Wanda
<i>Phoradendron macrophyllum</i>	Big-leaf mistletoe	Ub		JOMU: Wanda, House; EUON
<i>Platanus racemosa</i>	California sycamore	Ua2		JOMU: Grave
<i>Plectritis congesta</i>	Seablush	Ua2		JOMU: Wanda
<i>Potentilla anserina</i> ssp. <i>pacifica</i>	Pacific silverweed	Ua2		POCH

<i>Ptelea crenulata</i>	Hop tree	Ub		JOMU: Wanda
<i>Ribes californicum</i> var. <i>californicum</i>	Hillside gooseberry	Uw		JOMU: Wanda
<i>Rupertia physodes</i>	California tea	Uw		JOMU: Wanda
<i>Scirpus cernuus</i>	Low clubrush	Uw		POCH
<i>Scirpus maritimus</i>	Prairie bulrush	Uw		JOMU: House
<i>Scutellaria tuberosa</i>	Skullcap	Uw		JOMU: Wanda
<i>Trillium chloropetalum</i>	Giant trillium	Uw		EUON

Federal Status:

Species of Concern

Plant species sensitive species that have not been listed, proposed for listing nor placed in candidate status. Species of concern is an informal term used by some but not all U.S. Fish & Wildlife Service offices. Species of concern receive no legal protection and the use of the term does not necessarily mean that the species will eventually be proposed for listing as a threatened or endangered species.

Local Status:

CNPS Rarity Lists:

List 1A = Plants Presumed Extinct in California;

List 1B = Plants Rare, Threatened, or Endangered in California and Elsewhere;

List 2 = Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere;

List 3 = Plants About Which We Need More Information - A Review List;

List 4 = Plants of Limited Distribution - A Watch List

CNPS Rarity-Endangerment-Distribution, (R-E-D), Code:

R - Rarity

1 = Rare, but found in sufficient numbers and distributed widely enough that the potential for extinction is low at this time.

2 = Distributed in a limited number of occurrences, occasionally more if each occurrence is small.

3 = Distributed in one to several highly restricted occurrences, or present in such small numbers that it is seldom reported.

E = Endangerment

1 = Not endangered

2 = Endangered in a portion of its range

3 = Endangered throughout its range

D - Distribution

1 = More or less widespread outside California

2 = Rare outside California

3 = Endemic to California

Lake's Unusual and Significant Plants list, (for Alameda and Contra Costa Counties):

Target Non-Native Species

Both the CalEPPC and the CDFA actively maintain lists of species considered invasive weeds. Each organization has a different set of standards to determine what qualifies as a weed. The CalEPPC is mostly concerned with invasive plants of wild areas, while the CDFA is more concerned with weed plants of farm and livestock areas. Because the three properties covered in this report are comprised of both wild regions and managed land, we have chosen to use both lists for determining which plants would be included as weed species, be they native or non-native. There are 47 species on the three properties, which are listed weed species or are under consideration to be rated. Also included in this report is a list of invasive weed species not currently on any official lists, which may be taken into consideration on future lists.

GPS coordinates for weed populations of relatively limited distribution, but with high potential to spread, were taken during the course of this study. These species are Tree of Heaven, (*Ailanthus altissima*), Giant reed, Black mustard, Purple star-thistle (*Centaurea calcytrapa*), Bull thistle (*Cirsium vulgare*), Franchet Cotoneaster (*Cotoneaster franchetii*), Poison hemlock (*Conium maculatum*), Artichoke thistle (*Cynara cardunculus*), Australian Blue gum (*Eucalyptus globulus*), Oblong spurge (*Euphorbia oblongata*), Fennel (*Foeniculum vulgare*), French broom (*Genista monspessulana*), Hoary mustard (*Hirschfeldia incana*), Perennial pepperweed, Canary grass, Himalaya berry, Milk thistle, Perrywinkle and Spiny cocklebur (*Xanthium spinosum*). Many of the weeds of highest concern are too widespread to realistically collect useful GPS data. Please refer to maps in Appendices 2-4 for locational data.

Table 2: Target Non-Native Species

Latin Name	Common Name	CalEPPC Rating	CDFA Rating
<i>Ailanthus altissima</i>	Tree of heaven	A-2	
<i>Arundo donax</i>	Giant reed	A-1	
<i>Avena barbata</i>	Slender wild oat	G	
<i>Avena fatua</i>	Wild oat	G	

<i>Bellardia trixago</i>	Bellardia	B	
<i>Brassica nigra</i>	Black mustard	B	
<i>Bromus diandrus</i>	Rip-gut brome	G	
<i>Bromus madritensis</i> <i>ssp. rubens</i>	Foxtail chess, Red brome	A-2	
<i>Carduus</i> <i>pycnocephalus</i>	Italian thistle	B	NOX-C
<i>Carpobrotus edulis</i>	Ice plant, Sea fig	A-1	
<i>Centaurea calcitrapa</i>	Purple star thistle	B	NOX-B
<i>Centaurea melitensis</i>	Tocalote	B	NOX-Non-Rated
<i>Centaurea solstitialis</i>	Yellow star thistle	A-1	NOX-C
<i>Cirsium vulgare</i>	Bull thistle	B	NOX-Non-Rated
<i>Conium maculatum</i>	Poison hemlock	B	
<i>Convolvulus arvensis</i>	Bindweed	?	NOX-C
<i>Cotoneaster</i> <i>franchetii</i>	Francheti cotoneaster	N	
<i>Cotoneaster lacteus</i>	Big-leafed cotoneaster	A-2	
<i>Cynara cardunculus</i>	Artichoke thistle	A-1	NOX-B
<i>Cynodon dactylon</i>	Bermuda grass		NOX-C
<i>Eucalyptus globulus</i>	Tasmanian blue gum	A-1	
<i>Euphorbia lathyris</i>	Caper spurge	N	
<i>Euphorbia oblongata</i>	Oblong spurge		NOX-B
<i>Ficus carica</i>	Fig	A-2	
<i>Foeniculum vulgare</i>	Fennel	A-1	
<i>Genista</i> <i>monspessulana</i>	French broom	A-1	NOX-C
<i>Hedera canariensis</i>	Algerian ivy	N	
<i>Hedera helix</i>	English ivy	B	
<i>Hirschfeldia incana</i>	Hoary mustard	N	
<i>Lepidium latifolium</i>	Perennial pepperweed	A-1	NOX-B
<i>Lolium multiflorum</i>	Italian rye grass	G	
<i>Malvella leprosa</i>	Alkali mallow		NOX-C
<i>Medicago</i> <i>polymorpha</i>	California bur clover	?	
<i>Nerium oleander</i>	Oleander	?	
<i>Olea europaea</i>	Olive	B	
<i>Oxalis pes-caprae</i>	Bermuda buttercup	N	
<i>Phalaris aquatica</i>	Harding grass	B	
<i>Phyla nodiflora</i> var.	Common lippia	N	

<i>nodiflora</i>			
<i>Picris echioides</i>	Bristly ox-tongue	?	
<i>Piptatherum miliaceum</i>	Smilo grass	N	
<i>Prunus cerasifera</i>	Cherry plum	N	
<i>Rubus discolor</i>	Himalaya blackberry	A-1	
<i>Salsola soda</i>	Russian thistle	N	
<i>Senecio vulgaris</i>	Groundsel		NOX-Non-Rated
<i>Silybum marianum</i>	Milk thistle	?	
<i>Vinca major</i>	Periwinkle	B	
<i>Tribulus terrestris</i>	Puncturevine		NOX-C
<i>Xanthium spinosum</i>	Spiny cocklebur	?	
<i>Zantedeschia aethiopica</i>	Calla-lily	?	

CalEPPC Ratings:

A-1 = Most Invasive Wildland Pest Plants, Widespread; **A-2** = Most Invasive Wildland Pest Plants, Regional

B = Wildland Pest Plants of Lesser Invasiveness; **N** = Need More Information; **G** = Other Annual Grasses of Concern

? = Considered But Not Listed

CDFA Ratings:

NOX-C = Extremely Widespread (Containment Efforts Not Recommended);

NOX-B = Widespread (Potentially Containable);



Photo: *Silybum marianum* Milk thistle

Management Recommendations

This survey covered a wide variety of habitat types and communities that require very different management regimes that need to be tailored for each specific area. The north side of Mt. Wanda and the east side of EUON both have large areas of “wild lands” that experience a small amount of human impact as a function of their inaccessibility. For these areas the most worthwhile management practice should probably be maintaining limited access. These areas contain some of the richest species diversity of the areas surveyed, and also were home to a number of interesting animals. During our time in the field we found several species of snake, a few active honeybee hives, many different bird species, footprints and scat a number of large mammals, and even the den of a Red Fox. One noteworthy find was the nest of a pair of Turkey Vultures, (replete with one healthy chick), far from the meandering wildflower path, in one of the most distant, unvisited corners of the park. Turkey Vultures are shy creatures, choosing isolated places in the chaparral for their nesting area. Very rarely are these nesting areas ever found. The existence of this nest is a testament to the undisturbed nature of the area.

On the north side of Mt. Wanda we found a number of diverse plant communities, with isolated “hot spots” of diversity. In this area there were enough minor variations in degree of slope, hillside orientation, and composition of overstory density, which created a very diverse set of microclimates in which many different species of plant thrived, thus making areas of the North-facing Blue Oak Woodland by far the most botanically interesting. Future management should take this into account, and management should favor the preservation of that habitat. It was also in these north side areas where the Mt. Diablo sunflower was found, as well as the locally rare Heart-leaved milkweed. The sunflower was located usually along the ecotone between the Chaparral and the Blue Oak Woodland and was restricted to small, isolated populations of ten to twenty plants. The milkweed was represented by only a handful

of individual plants in two isolated locations. The continued existence of the Chaparral and Blue Oak Woodland types seems vital to the existence of these rare plants.

The proper management of the Blue Oak Woodland is especially important as the presence of the *Phytophthora* species responsible for Sudden Oak Death could spell doom for this entire plant community, including those rare species mentioned above. There are also many century-old oak trees spread out over Mt. Wanda, that represent in themselves the vitality of the plant community. The loss of these trees would be nothing less than tragedy.

The top and southern portions of Mt. Wanda are a very different story. Most open grassland areas were dominated by non-native, annual grasses. These areas were also densely populated by patches of Yellow star thistle, Italian thistle, Milk thistle, and Black mustard. Management of the grassland areas of Mt. Wanda poses a significant challenge. Perhaps this is the opportunity the National Park Service has been waiting for to test the usefulness of a new, intensive management regime, (e.g. proscribed burn combined with grazing and selective weeding). While there is certainly a huge issue of liability and good neighbor relations, a fire regime may be the answer to cutting down on the non-native seedbed. As it stands now, there are only a few portions of the grassland areas on Mt. Wanda that are not dominated by aggressive non-natives.

In general, all disturbed sites were dominated by non-natives as well. One such site was the pasture adjacent to the entrance to the Strain property. This area was dominated by a combination of Purple star thistle, Artichoke thistle, Perennial pepperweed, Bull thistle, and Italian rye grass. Well-timed, intense weeding operations would probably do very well at controlling and eradicating these populations. In the case of the Purple star thistle, and the Perennial pepperweed, this is the only location where these plants exist in the park and eradication would be easily attained through intensive weeding.

On the southeast side of Mt. Wanda are the remnants of Apricot trees, dating back to the time of John Muir. While it may be in keeping with the doctrine of the park to reestablish and maintain these trees as part of the historically significant agriculture of Muir's time, the amount of water needed to maintain these trees in a healthy state may be beyond the park's resources. As they are now, there are only a few trees holding on tenuously to life on that otherwise parched and arid hillside.

Further south, on the hillside across the drainage of the Strain ranch is the Olive orchard mentioned earlier in this report. This orchard should be of serious concern for the park as it is already spreading down into the forest below it and has a great potential to out-compete all other plants in that area. The effort needed to thwart this spread is not huge as the olive seedlings and saplings are easily identified and can be hand pulled in about an afternoon's work by a weed abatement crew.

On the north end of the park is another simple afternoon of weed abatement that will make a permanent impact on the park. There is a relatively small patch of French broom that could be eradicated in a day and also a single patch of Himalayan blackberry that also could be eradicated in a day.

A final area of concern for Mt. Wanda should be around the park boundaries. Tree of heaven is a major problem along the Eastern border of the park and there are a few trees along the Northern border. The eradication of this tree is probably never completely attainable as they grow abundantly in the surrounding neighborhood. But after the current aggressive removal project, the containment of the spread of tree of heaven may be a fairly small annual project for the park.

As for the orchard areas that are at the John Muir House and Gravesite as well as EUON, the current practice of disking has both advantages and disadvantages as a management practice. While the major benefit of low fuel loading, and thus low fire danger is a major benefit from disking, the constant disturbance is creating an environment in which quick-growing annuals and weed species proliferate. On the

whole, most of the species found in these areas are “benign” weeds in that they don’t seem to spread into other areas. There are however a few problem species that are doing very well by this practice. The most offensive of these weeds is Puncture vine (*Tribulus terrestris*). This is an easily recognizable plant in disturbed areas that produces an abundance of hard, spiny, tire-popping seedpods. It may be this weed can be controlled manually or by poison, but at present it seems to be growing unchecked at all sites.

The POCH site was the picture of an edge community. On the side of the Carquinez Straits there was a strong, though minute, wetland community composed of several interesting species that were adapted to the tidal environment. Then, just two meters from the water was the beginning of ruderal areas, where invasive weed species dominated. At the time of this writing POCH is less than one hectare in size, but is abutted by hundreds of hectares of military land, that, if acquired by the Park Service, would become both a tremendous asset in the form of wetlands and a major restoration project. The two dominant weeds found on the POCH site were Perennial pepperweed and Fennel. Both of these species extended over vast areas all around POCH and any restoration project would have to devote many, many hours to the removal of these species. Just off of the site were many massive patches of Iceplant, which also should become the focus of an eradication project, should the National Monument property boundaries ever be extended.

Plant Species Checklists**John Muir N.H.S. - Mount Wanda Property**

- Species listed in **Boldface** are native to California
- Species followed by an asterisk (*) are planted ornamentals/fruit trees

LATIN NAME**COMMON NAME****Amaranthaceae**

- ❑ *Amaranthus blitoides*

Prostrate pigweed

Anacardiaceae

- ❑ *Toxicodendron diversiloba*

Poison oak

Apiaceae

- ❑ *Anthriscus caucalis*

Bur-chervil

- ❑ *Conium maculatum*

Poison hemlock

- ❑ *Daucus pusillus*

Rattlesnake weed

- ❑ *Foeniculum vulgare*

Fennel

- ❑ *Lomatium utriculatum*

Bladder parsnip

- ❑ *Osmorhiza chilensis*

Wood cicely

- ❑ *Perideridia kelloggii*

Yampah

- ❑ *Sanicula bipinnatifida*

Purple sanicle

- ❑ *Sanicula crassicaulis*

Pacific snakeroot

- ❑ *Scandix pecten-veneris*

Shepherd's needle

- ❑ *Torilis arvensis*

Field hedge parsley

- ❑ *Torilis nodosa*

Knotted hedge parsley

Apocynaceae

- ❑ *Vinca major*

Periwinkle

Araceae

- ❑ *Zantedeschia aethiopica*

Calla-lily

Araliaceae

- ❑ *Hedera helix*

English ivy

Aristolochiaceae

- ❑ *Aristolochia californica*

Dutchman's pipe

Asclepiadaceae

- ❑ *Asclepias cordifolia*

Heart-leafed milkweed

- ❑ *Asclepias fascicularis*

Narrow-leafed milkweed

Asteraceae

- ❑ *Achillea millefolium*

Yarrow

- ❑ *Achyrrachaena mollis*

Blow wives

- ❑ *Agoseris grandiflora*

California dandelion

- ❑ *Artemisia californica*

California sagebrush

- ❑ *Artemisia douglasiana*

California mugwort

<input type="checkbox"/> <i>Aster chilensis</i>	Common california aster
<input type="checkbox"/> <i>Aster radulinus</i>	Broad-leaved aster, Woodland aster
<input type="checkbox"/> <i>Baccharis pilularis</i>	Coyote brush
<input type="checkbox"/> <i>Carduus pycnocephalus</i>	Italian thistle
<input type="checkbox"/> <i>Centaurea calcitrapa</i>	Purple star thistle
<input type="checkbox"/> <i>Centaurea melitensis</i>	Tocalote
<input type="checkbox"/> <i>Centaurea solstitialis</i>	Yellow star thistle
<input type="checkbox"/> <i>Chamomilla suaveolens</i>	Pineapple weed
<input type="checkbox"/> <i>Cichorium intybus</i>	Chicory
<input type="checkbox"/> <i>Cirsium vulgare</i>	Bull thistle
<input type="checkbox"/> <i>Conyza bonariensis</i>	South American horseweed
<input type="checkbox"/> <i>Conyza canadensis</i>	Canadian horseweed
<input type="checkbox"/> <i>Cynara cardunculus</i>	Artichoke thistle
<input type="checkbox"/> <i>Eriophyllum confertiflorum</i> var. <i>confertiflorum</i>	Golden yarrow
<input type="checkbox"/> <i>Filago gallica</i>	Fluffweed
<input type="checkbox"/> <i>Gnaphalium californicum</i>	California everlasting
<input type="checkbox"/> <i>Gnaphalium luteo-album</i>	Cudweed
<input type="checkbox"/> <i>Grindelia camporum</i> var. <i>camporum</i>	Common gum plant
<input type="checkbox"/> <i>Helianthella castanea</i>	Mount Diablo sunflower
<input type="checkbox"/> <i>Helianthus annuus</i>	Sunflower
<input type="checkbox"/> <i>Holocarpha heermannii</i>	Heermann's tarweed
<input type="checkbox"/> <i>Hypochaeris glabra</i>	Smooth cat's ear
<input type="checkbox"/> <i>Hypochaeris radicata</i>	Hairy cat's ear
<input type="checkbox"/> <i>Lactuca serriola</i>	Prickly lettuce
<input type="checkbox"/> <i>Lactuca virosa</i>	Wild lettuce
<input type="checkbox"/> <i>Lagophylla ramosissima</i> ssp. <i>ramosissima</i>	Common hareleaf
<input type="checkbox"/> <i>Madia elegans</i> ssp. <i>densiflora</i>	Common tarweed
<input type="checkbox"/> <i>Madia gracilis</i>	Slender tarweed
<input type="checkbox"/> <i>Micropus californicus</i> var. <i>californicus</i>	Slender cottonweed
<input type="checkbox"/> <i>Picris echioides</i>	Bristly ox-tongue
<input type="checkbox"/> <i>Psilocarphus tenellus</i> var. <i>tenellus</i>	Woolly head
<input type="checkbox"/> <i>Senecio vulgaris</i>	Groundsel
<input type="checkbox"/> <i>Silybum marianum</i>	Milk thistle
<input type="checkbox"/> <i>Solidago californica</i>	California goldenrod
<input type="checkbox"/> <i>Soliva sessilis</i>	South American soliva
<input type="checkbox"/> <i>Sonchus asper</i> ssp. <i>asper</i>	Prickly sow thistle
<input type="checkbox"/> <i>Sonchus oleraceus</i>	Common sow thistle
<input type="checkbox"/> <i>Taraxacum officinale</i>	Dandelion
<input type="checkbox"/> <i>Uropappus lindleyi</i>	Silver puffs
<input type="checkbox"/> <i>Wyethia angustifolia</i>	Narrowleaf mule ears
<input type="checkbox"/> <i>Wyethia helenoides</i>	Grey mule ears
<input type="checkbox"/> <i>Xanthium spinosum</i>	Spiny cocklebur
<input type="checkbox"/> <i>Xanthium strumarium</i>	Cocklebur

Boraginaceae

- ❑ *Amsinckia menziesii* var. *intermedia*
- ❑ *Cynoglossum grande*

Common fiddleneck
Grand hound's tongue

Brassicaceae

- ❑ *Brassica nigra*
- ❑ *Brassica rapa*
- ❑ *Capsella bursa-pastoris*
- ❑ *Cardamine oligosperma*
- ❑ *Hirschfeldia incana*
- ❑ *Lepidium latifolium*
- ❑ *Lepidium nitidum* var. *nitidum*
- ❑ *Raphanus sativus*
- ❑ *Sinapis arvensis*
- ❑ *Sisymbrium officinale*
- ❑ *Thysanocarpus curvipes*

Black mustard
Field mustard
Shepherd's purse
Bitter cress
Hoary mustard
Perennial pepperweed
Poorman's peppergrass
Wild radish
Charlock
Hedge mustard
Fringepod

Caprifoliaceae

- ❑ *Lonicera hispidula* var. *vacillans*
- ❑ *Sambucus mexicana*
- ❑ *Symphoricarpos albus* var. *laevigatus*

California honeysuckle
Blue elderberry
Snowberry

Caryophyllaceae

- ❑ *Silene gallica*
- ❑ *Spergularia rubra*
- ❑ *Stellaria media*

Windmill pink, Common catchfly
Sand spurrey
Chickweed

Chenopodiaceae

- ❑ *Chenopodium multifidum*

Cutleaved goosefoot

Convolvulaceae

- ❑ *Calystegia subacaulis* ssp. *subacaulis*
- ❑ *Convolvulus arvensis*

Hill morning glory
Bindweed

Cucurbitaceae

- ❑ *Marah fabaceus*

California manroot

Dryopteridaceae

- ❑ *Dryopteris arguta*

Wood fern

Ebenaceae

- ❑ *Diospyros kaki**

Persimmon

Euphorbiaceae

- ❑ *Chamaesyce maculata*
- ❑ *Eremocarpus setigerus*
- ❑ *Euphorbia lathyris*
- ❑ *Euphorbia oblongata*
- ❑ *Euphorbia spathulata*

Spotted spurge
Dove weed, Turkey mullein
Caper spurge
Oblong spurge
Spatulate leafed spurge

Fabaceae

- ❑ *Genista monspessulana*
- ❑ *Lathyrus latifolius*

French broom
Everlasting pea

<input type="checkbox"/> <i>Lathyrus vestitus</i> var. <i>vestitus</i>	Hillside pea
<input type="checkbox"/> <i>Lotus corniculatus</i>	Bird's foot lotus
<input type="checkbox"/> <i>Lotus humistratus</i>	Hill lotus
<input type="checkbox"/> <i>Lotus purshianus</i> var. <i>purshianus</i>	Spanish lotus
<input type="checkbox"/> <i>Lotus scoparius</i> var. <i>scoparius</i>	Deer weed
<input type="checkbox"/> <i>Lotus wrangelianus</i>	Common trefoil
<input type="checkbox"/> <i>Lupinus bicolor</i>	Miniature lupine
<input type="checkbox"/> <i>Lupinus formosus</i> var. <i>formosus</i>	Summer lupine
<input type="checkbox"/> <i>Lupinus microcarpus</i> var. <i>microcarpus</i>	Chick lupine, Valley lupine
<input type="checkbox"/> <i>Lupinus nanus</i>	Sky lupine, Douglas's lupine
<input type="checkbox"/> <i>Lupinus succulentus</i>	Arroyo lupine
<input type="checkbox"/> <i>Medicago arabica</i>	Spotted bur clover
<input type="checkbox"/> <i>Medicago polymorpha</i>	California bur clover
<input type="checkbox"/> <i>Melilotus indica</i>	Sour clover
<input type="checkbox"/> <i>Robinia pseudoacacia</i>	Black locust
<input type="checkbox"/> <i>Rupertia physodes</i>	California tea
<input type="checkbox"/> <i>Trifolium bifidum</i> var. <i>decipiens</i>	Deceiving clover
<input type="checkbox"/> <i>Trifolium dubium</i>	Little hop clover, Shamrock
<input type="checkbox"/> <i>Trifolium gracilentum</i> var. <i>gracilentum</i>	Pinpoint clover
<input type="checkbox"/> <i>Trifolium hirtum</i>	Rose clover
<input type="checkbox"/> <i>Trifolium incarnatum</i>	Crimson clover
<input type="checkbox"/> <i>Trifolium microcephalum</i>	Smallhead clover
<input type="checkbox"/> <i>Trifolium microdon</i>	Valparaiso clover, Thimble clover
<input type="checkbox"/> <i>Trifolium oliganthum</i>	Fewflower clover
<input type="checkbox"/> <i>Trifolium subterraneum</i>	Subterranean trifolium
<input type="checkbox"/> <i>Trifolium wildenovii</i>	Tomcat clover
<input type="checkbox"/> <i>Vicia americana</i> var. <i>americana</i>	American vetch
<input type="checkbox"/> <i>Vicia benghalensis</i>	Purple vetch
<input type="checkbox"/> <i>Vicia sativa</i> ssp. <i>nigra</i>	Spring vetch
Fagaceae	
<input type="checkbox"/> <i>Quercus agrifolia</i>	Coast live oak
<input type="checkbox"/> <i>Quercus douglasii</i>	Blue oak
<input type="checkbox"/> <i>Quercus kelloggii</i>	Black oak
<input type="checkbox"/> <i>Quercus lobata</i>	Valley oak
<input type="checkbox"/> <i>Quercus suber</i> *	Cork oak
Geraniaceae	
<input type="checkbox"/> <i>Erodium botrys</i>	Long-beaked stork's bill
<input type="checkbox"/> <i>Erodium cicutarium</i>	Red-stemmed stork's bill
<input type="checkbox"/> <i>Erodium moschatum</i>	Whitestem filaree
<input type="checkbox"/> <i>Geranium dissectum</i>	Cut-leaved geranium
<input type="checkbox"/> <i>Geranium molle</i>	Crane's bill geranium
Grossulariaceae	
<input type="checkbox"/> <i>Ribes californicum</i> var. <i>californicum</i>	Hillside gooseberry

Hippocastanaceae

- ❑ *Aesculus californica*

California buckeye

Hydrophyllaceae

- ❑ *Nemophila heterophylla*

Canyon nemophila

Hypericaceae

- ❑ *Hypericum calycinum**

Creeping St. John's wort

Iridaceae

- ❑ *Sisyrinchium bellum*

Blue-eyed grass

Juglandaceae

- ❑ *Juglans californica* var. *hindsii*

California black walnut

- ❑ *Juglans regia**

English walnut

Juncaceae

- ❑ *Juncus patens*

Spreading rush

- ❑ *Juncus xiphioides*

Iris-leaf juncus

- ❑ *Luzula comosa*

Wood rush

Lamiaceae

- ❑ *Lamium amplexicaule*

Clasping henbit

- ❑ *Monardella villosa* ssp. *villosa*

Coyote mint

- ❑ *Salvia mellifera*

Black sage

- ❑ *Scutellaria tuberosa*

Skullcap

- ❑ *Stachys ajugoides* ssp. *rigida*

Hedge nettle

Lauraceae

- ❑ *Umbellularia californica*

California bay

Liliaceae

- ❑ *Allium serra*

Serrated onion

- ❑ *Amaryllis belladonna*

Naked ladies

- ❑ *Asparagus officinalis* ssp. *officinalis*

Asparagus

- ❑ *Brodiaea elegans* ssp. *elegans*

Harvest brodiaea

- ❑ *Calochortus venustus*

Butterfly mariposa lily

- ❑ *Chlorogalum pomeridianum* var. *pomeridianum*

Wavy-leaved soap plant

- ❑ *Dichelostemma capitatum* ssp. *capitatum*

Blue dicks

- ❑ *Dichelostemma congestum*

Round tooth ookow

- ❑ *Triteleia laxa*

Ithuriel's spear, Wally basket

- ❑ *Yucca elephantipes**

Giant spineless yucca

- ❑ *Zigadenus fremontii*

Star lily, Death camas

Malvaceae

- ❑ *Malva nicaeensis*

Bull mallow

Myrtaceae

- ❑ *Eucalyptus globulus**

Tasmanian blue gum

Oleaceae

- ❑ *Olea europea**

Olive

Onagraceae

- ❑ *Clarkia affinis*

Chaparral clarkia

<input type="checkbox"/> <i>Clarkia unguiculata</i>	Elegant clarkia
<input type="checkbox"/> <i>Epilobium brachycarpum</i>	Annual fireweed
Oxalidaceae	
<input type="checkbox"/> <i>Oxalis pes-caprae</i>	Bermuda buttercup
Papaveraceae	
<input type="checkbox"/> <i>Eschscholzia californica</i>	California poppy
Philadelphaceae	
<input type="checkbox"/> <i>Philadelphus lewisii</i> *	Mock orange
Pinaceae	
<input type="checkbox"/> <i>Pinus</i> sp.*	Pine
<input type="checkbox"/> <i>Pinus radiata</i> *	Monterey pine
Plantaginaceae	
<input type="checkbox"/> <i>Plantago lanceolata</i>	Lanceleaf plantain, English plantain
Poaceae	
<input type="checkbox"/> <i>Agrostis exarata</i>	Spike redtop
<input type="checkbox"/> <i>Aira caryophylla</i>	Hairgrass
<input type="checkbox"/> <i>Avena barbata</i>	Slender wild oat
<input type="checkbox"/> <i>Avena fatua</i>	Wild oat
<input type="checkbox"/> <i>Briza minor</i>	Quaking grass
<input type="checkbox"/> <i>Bromus carinatus</i> var. <i>carinatus</i>	California brome
<input type="checkbox"/> <i>Bromus diandrus</i>	Rip-gut brome
<input type="checkbox"/> <i>Bromus hordeaceus</i>	Soft chess
<input type="checkbox"/> <i>Bromus madritensis</i> ssp. <i>rubens</i>	Foxtail chess, Red brome
<input type="checkbox"/> <i>Cynodon dactylon</i>	Bermuda grass
<input type="checkbox"/> <i>Cynosorus echinatus</i>	Hedgehog dogtail
<input type="checkbox"/> <i>Dactylis glomerata</i>	Orchard grass
<input type="checkbox"/> <i>Elymus glaucus</i> ssp. <i>glaucus</i>	Blue wildrye
<input type="checkbox"/> <i>Gastridium ventricosum</i>	Nit grass
<input type="checkbox"/> <i>Hordeum marinum</i> ssp. <i>gussoneanum</i>	Mouse barley
<input type="checkbox"/> <i>Hordeum murinum</i> ssp. <i>leporinum</i>	Foxtail barley
<input type="checkbox"/> <i>Leymus condensatus</i>	Giant wild rye
<input type="checkbox"/> <i>Leymus triticoides</i>	Creeping wild rye
<input type="checkbox"/> <i>Lolium multiflorum</i>	Italian rye grass
<input type="checkbox"/> <i>Melica californica</i>	California melic
<input type="checkbox"/> <i>Melica torreyana</i>	Torrey melic
<input type="checkbox"/> <i>Nasella lepida</i>	Foothill needlegrass
<input type="checkbox"/> <i>Nasella pulchra</i>	Purple needlegrass
<input type="checkbox"/> <i>Phalaris paradoxa</i>	Hood canary grass
<input type="checkbox"/> <i>Poa annua</i>	Annual bluegrass
<input type="checkbox"/> <i>Poa bulbosa</i>	Bulbous bluegrass
<input type="checkbox"/> <i>Poa secunda</i> ssp. <i>secunda</i>	One Sided bluegrass
<input type="checkbox"/> <i>Polypogon monspeliensis</i>	Rabbit's foot grass
<input type="checkbox"/> <i>Triticum aestivum</i>	Wheat

❑ <i>Vulpia bromoides</i>	Brome fescue
❑ <i>Vulpia microstachys</i> var. <i>pauciflora</i>	Few-flowered fescue
❑ <i>Vulpia myuros</i> var. <i>myuros</i>	Fox-tail fescue
Polemoniaceae	
❑ <i>Linanthus bicolor</i>	Bicolored linanthus
❑ <i>Phlox gracilis</i>	Slender phlox
Polygonaceae	
❑ <i>Eriogonum nudum</i> var. <i>auriculatum</i>	Nude buckwheat
❑ <i>Polygonum arenastrum</i>	Common knotweed
❑ <i>Rumex acetosella</i>	Sheep sorrel
❑ <i>Rumex conglomeratus</i>	Whorled dock
❑ <i>Rumex crispus</i>	Curly dock, Yellow dock
❑ <i>Rumex pulcher</i>	Fiddle dock
Polypodiaceae	
❑ <i>Polypodium calirhiza</i>	California polypody
Portulacaceae	
❑ <i>Calandrinia ciliata</i>	Red maids
❑ <i>Claytonia perfoliata</i> ssp. <i>perfoliata</i>	Miner's lettuce
Primulaceae	
❑ <i>Anagallis arvensis</i>	Scarlet pimpernel
❑ <i>Dodecatheon hendersonii</i>	Shooting star
Pteridaceae	
❑ <i>Adiantum jordanii</i>	Maidenhair fern
❑ <i>Pellaea andromedifolia</i>	Coffee fern
❑ <i>Pentagramma triangularis</i> ssp. <i>triangularis</i>	Goldback fern
Punicaceae	
❑ <i>Punica granatum</i> *	Pomegranite
Ranunculaceae	
❑ <i>Delphinium hesperium</i> ssp. <i>hesperium</i>	Foothill larkspur
❑ <i>Ranunculus californicus</i>	California buttercup
❑ <i>Ranunculus muricatus</i>	Spiny buttercup
Rhamnaceae	
❑ <i>Rhamnus californica</i> ssp. <i>californica</i>	California coffeeberry
Rosaceae	
❑ <i>Adenostoma fasciculatum</i>	Chamise
❑ <i>Aphanes occidentalis</i>	Lady's mantle
❑ <i>Cotoneaster franchetii</i> *	Franchet cotoneaster
❑ <i>Cydonia oblonga</i> *	Quince
❑ <i>Heteromeles arbutifolia</i>	Toyon
❑ <i>Holodiscus discolor</i>	Oceanspray
❑ <i>Malus sylvestris</i> *	Apple
❑ <i>Oemleria cerasiformis</i>	Oso berry
❑ <i>Potentilla glandulosa</i> ssp. <i>glandulosa</i>	Sticky cinquefoil

<input type="checkbox"/> <i>Prunus armeniaca</i> *	Apricot
<input type="checkbox"/> <i>Prunus cerasifera</i>	Cherry plum
<input type="checkbox"/> <i>Prunus dulcis</i> *	Almond
<input type="checkbox"/> <i>Pyracantha angustifolia</i> *	Firethorn
<input type="checkbox"/> <i>Pyrus communis</i> *	Pear
<input type="checkbox"/> <i>Rosa gymnocarpa</i>	Dwarf rose, Wood rose
<input type="checkbox"/> <i>Rubus discolor</i>	Himalaya blackberry
<input type="checkbox"/> <i>Rubus ursinus</i>	California blackberry
Rubiaceae	
<input type="checkbox"/> <i>Galium aparine</i>	Goosegrass
<input type="checkbox"/> <i>Galium murale</i>	Tiny bedstraw
<input type="checkbox"/> <i>Galium porrigens</i> var. <i>porrigens</i>	Bedstraw
Rutaceae	
<input type="checkbox"/> <i>Ptelea crenulata</i>	Hop tree
Salicaceae	
<input type="checkbox"/> <i>Populus fremontii</i> ssp. <i>fremontii</i>	Fremont cottonwood
<input type="checkbox"/> <i>Salix laevigata</i>	Red willow
<input type="checkbox"/> <i>Salix lasiolepis</i>	Arroyo willow
Saxifragaceae	
<input type="checkbox"/> <i>Lithophragma affine</i>	Common woodland star
<input type="checkbox"/> <i>Lithophragma heterophyllum</i>	Hillside woodland star
<input type="checkbox"/> <i>Saxifraga californica</i>	California saxifrage
Scrophulariaceae	
<input type="checkbox"/> <i>Bellardia trixago</i>	Bellardia
<input type="checkbox"/> <i>Castilleja affinis</i> ssp. <i>affinis</i>	Indian paintbrush
<input type="checkbox"/> <i>Castilleja attenuata</i>	Valley tassels
<input type="checkbox"/> <i>Castilleja exserta</i> ssp. <i>exserta</i>	Purple owl's clover
<input type="checkbox"/> <i>Castilleja foliolosa</i>	Woolly owl's clover
<input type="checkbox"/> <i>Castilleja rubicundula</i> ssp. <i>lithospermoides</i>	Cream sacs
<input type="checkbox"/> <i>Collinsia heterophylla</i>	Purple Chinese houses
<input type="checkbox"/> <i>Collinsia sparsiflora</i> var. <i>sparsiflora</i>	Blue-eyed mary
<input type="checkbox"/> <i>Linaria canadensis</i>	Blue toadflax
<input type="checkbox"/> <i>Mimulus aurantiacus</i>	Sticky monkeyflower
<input type="checkbox"/> <i>Scrophularia californica</i> ssp. <i>californica</i>	Figwort
<input type="checkbox"/> <i>Triphysaria pusilla</i>	Dwarf owl's-clover
<input type="checkbox"/> <i>Veronica persica</i>	Persian speedwell
Simaroubaceae	
<input type="checkbox"/> <i>Ailanthus altissima</i>	Tree of heaven
Solanaceae	
<input type="checkbox"/> <i>Solanum americanum</i>	Small-flowered nightshade
<input type="checkbox"/> <i>Solanum umbelliferum</i>	Blue-witch nightshade
Taxodiaceae	
<input type="checkbox"/> <i>Sequoia sempervirens</i> *	Coast redwood

Typhaceae

- *Typha angustifolia*

Narrow-leafed cattail

Urticaceae

- *Urtica urens*

Dwarf nettle

Valerianaceae

- *Plectritis congesta*
- *Plectritis ciliosa* ssp. *ciliosa*

Seablush

Long-spurred seablush

Viscaceae

- *Phoradendron macrophyllum*
- *Phoradendron villosum*

Big-leafed mistletoe

Oak mistletoe

Vitaceae

- *Vitis vinifera*

Grape

Zygophyllaceae

- *Tribulus terrestris*

Puncturevine

Species Potentially Found on Mount Wanda

The species on this list were not found during the course of our surveys in 2002. However, these species have been reported for Mount Wanda by reliable sources and are species typically known from the area (or are species that are unmistakable even if uncommon in the area). Some of these are likely misidentifications and some are quite possibly present on Mt. Wanda.

- Species listed in **Boldface** are native to California
- Species followed by an asterisk (*) are planted ornamentals/fruit trees

LATIN NAME**COMMON NAME****Apiaceae*****Lomatium caruifolium***

Foothill lomatium

- Not observed on Mt. Wanda

Lomatium dasycarpum

Lomatium

- Not observed on Mt. Wanda

Sanicula bipinnata

Poison sanicle

- Not observed on Mt. Wanda

Asteraceae***Agoseris heterophylla***

Mountain dandelion

- Not observed on Mt. Wanda, most likely a mistaken identification of *A. grandiflora****Filago californica***

Fluffweed

- Not observed on Mt. Wanda, (though common elsewhere), perhaps a mistaken identification of *F. gallica****Hesperis sparsiflora* var. *sparsiflora***

Evax

- Not observed on Mt. Wanda

Madia exigua

Threadstem tarweed

- Not observed on Mt. Wanda

Microseris elegans

Elegant silverpuffs

- Not observed on Mt. Wanda, possibly a mistaken identification of *Uropappus lindleyi* [*Microseris lindleyi*]***Tragopogon porrifolius***

Salsify

- Not observed on Mt. Wanda, but unmistakable

Brassicaceae***Arabis glabra* var. *glabra***

Tower mustard

- Not observed on Mt. Wanda

Coronopus didymus

Wartcress

- Not observed on Mt. Wanda

Caryophyllaceae

- Cerastium glomeratum* Sticky chickweed
 - Not observed on Mt. Wanda, but common elsewhere

Chenopodiaceae

- Chenopodium album* Lambsquarter
 - Not observed on Mt. Wanda, but common elsewhere

Cistaceae

- Helianthemum scoparium* Rushrose
 - Not observed on Mt. Wanda, but unmistakable

Crassulaceae

- Crassula connata* Pygmy weed
 - Not observed on Mt. Wanda

Fabaceae

- Trifolium ciliolatum* Ciliate clover
 - Not observed on Mt. Wanda
Trifolium depauperatum Palesack clover
 - Not observed on Mt. Wanda

Fagaceae

- Quercus wislizeni* Interior live oak
 - Not observed on Mt. Wanda

Geraniaceae

- Erodium brachycarpum* Early filaree
 - Not observed on Mt. Wanda

Juncaceae

- Juncus bufonius* Toad rush
 - Not observed on Mt. Wanda

Lamiaceae

- Pogogyne serpylloides* Pogogyne
 - Not observed on Mt. Wanda, (possibly a mistaken identification of *Triphysaria pusilla*?)

Lauraceae

- Persea americana** Avocado
 - Not observed on Mt. Wanda

Liliaceae

- Brodiaea coronaria* Brodiaea
 - Not observed on Mt. Wanda, and not known from area; unlikely to be confused with other species
Calochortus pulchellus Mt. Diablo fairy lantern
 - Not observed on Mt. Wanda, and impossible to confuse with other species.
 Note: this species is rare and endangered in California

Orobanchaceae

- Orobanche uniflora* Naked broom-rape
 - Not observed on Mt. Wanda

Poaceae*Agrostis hallii*

Hall's bentgrass

- Not observed on Mt. Wanda, possibly a mistaken identification of *Melica torreyana* which looks very similar when juvenile

Bromus laevipes

Woodland brome

- Not observed on Mt. Wanda

Poa pratensis

Kentucky bluegrass

- Not observed on Mt. Wanda

Vulpia octoflora var. *octoflora*

Six-week's fescue

- Not observed on Mt. Wanda

Polygonaceae*Pterostegia drymarioides*

Fairy-mist

- Not observed on Mt. Wanda

Ranunculaceae*Ranunculus aquatilis*

Water buttercup

- Not observed on Mt. Wanda. Original report was for var. *hispidulus*, which is not known from the area. Most likely var. *capillaceus*, if present on Mt. Wanda.

Ranunculus hebecarpus

Delicate buttercup

- Not observed on Mt. Wanda

Rubiaceae*Galium parisiense*

Wall bedstraw

- Not observed on Mt. Wanda, possibly a mistaken identification of *G. murale*

Saxifragaceae*Lithophragma bolanderi*

Bolander's woodland star

- Not observed on Mt. Wanda

Scrophulariaceae*Triphysaria eriantha* ssp. *eriantha*

Butter-and-eggs, Johnny-tuck

- Not observed on Mt. Wanda, perhaps mistaken ID of *Castilleja rubicundula* ssp. *lithospermoides*

Solanaceae*Nicotiana glauca*

Tree tobacco

- Not observed on Mt. Wanda, and not known from the area, but very difficult to confuse with anything else

Rejected Species for Mt. Wanda

The plants on this list are species have been reported for Mt. Wanda in the past, and that we can say with some confidence are not to be found on Mt. Wanda currently.

- Species listed in **Boldface** are native to California
- Species followed by an asterisk (*) are planted ornamentals/fruit trees

LATIN NAME**COMMON NAME****Aceraceae*****Acer macrophyllum***

Bigleaf maple

Asteraceae***Eriophyllum lanatum* var. *achillaeoides***

Common woolly sunflower

Eriophyllum staechadifolium

Seaside woolly sunflower

***Hemizonia* spp.**

Sticky tarweed

Madia sativa

Coast tarweed

- Presumably a mistaken identification of *Madia gracilis****Micropus amphibolus***

Mt. Diablo cottonweed

- All *Micropus* present on Mt. Wanda appears to be *M. californicus* var. *californicus****Wyethia glabra***

Broadleaf mule ears

- All *Wyethia* present on Mt. Wanda appears to be either *W. angustifolia* or *W. helenoides*. *W. glabra* is not known from this area.**Boraginaceae*****Amsinckia eastwoodiae***

Valley fiddleneck

- All *Amsinckia* present on Mt. Wanda appears to be *A. menziesii* var. *intermedia*.**Brassicaceae*****Cardamine californica***

Milk maids

- All *Cardamine* present on Mt. Wanda appears to be *C. oligosperma****Lepidium campestre***

Poorman's peppergrass

Cupressaceae***Cupressus* sp.**

Cypress

- The Cypress presumably referred to is just off of the Mt. Wanda property.

Ericaceae***Arbutus menziesii***

Madrone

Fabaceae***Cytisus scoparius***

Scotch broom

- Presumably a mistaken identification of *Genista monspessulana****Trifolium aureum***

Hop clover

- Not known from the area

Trifolium fucatum

Cow clover, Bull clover

Trifolium wormskjoldii

Cow clover

Fagaceae

<i>Quercus dumosa</i>	Scrub oak
Hydrophyllaceae	
<i>Nemophila maculata</i>	Fivespot
<i>Nemophila menziesii</i> var. <i>menziesii</i>	Baby blue-eyes
Lamiaceae	
<i>Monardella odoratissima</i>	Mountain monardella
- Not known from the area	
Liliaceae	
<i>Calochortus superbus</i>	Superb mariposa lily
- Presumably a mistaken identification of <i>C. venustus</i>	
Onagraceae	
<i>Clarkia amoena</i>	
<i>Clarkia gracilis</i>	Farewell to spring
- Not known from the area	
<i>Clarkia purpurea</i> ssp. <i>quadrivulnera</i>	Winecup clarkia
- See extensive explanation under <i>Clarkia affinis</i> on the main species list	
Pinaceae	
<i>Pinus coulteri</i>	Coulter pine
- Not present on Mt. Wanda, and not known from the area. There are several planted pines just off the property near the Cypress mentioned above.	
Poaceae	
<i>Lamarckia aurea</i>	Goldentop
- Presumably a mistaken identification of <i>Cynosorus echinatus</i>	
<i>Panicum hillmanii</i>	Panic grass
- Not known from the area	
<i>Phalaris canariensis</i>	Canary grass
- Presumably a mistaken identification of <i>P. paradoxa</i>	
<i>Sorghum halepense</i>	Johnson grass
- Not known from the area	
Polygonaceae	
<i>Eriogonum latifolium</i>	Buckwheat
- Presumably a mistaken identification of <i>Eriogonum nudum</i> var. <i>auriculatum</i>	
Rosaceae	
<i>Malus floribunda</i>	Showy crabapple
- Presumably a mistaken identification of <i>Cydonia oblonga</i>	
<i>Prunus avium</i>	Sweet cherry
- From notes in the 1992 Hunter et al. study, it is clear that this was a mistaken identification of <i>P. cerasifera</i>	
<i>Potentilla rivalis</i>	Cinquefoil
- Not known from the area	
Salicaceae	
<i>Salix lucida</i> ssp. <i>lasiandra</i>	Shining willow
- Not known from the area	

Solanum xanti

Nightshade

- Presumably a mistaken identification of *S. umbelliferum*

John Muir N.H.S. - House Property

- Species listed in **Boldface** are native to California
- Species followed by an asterisk (*) are planted ornamentals/fruit trees

LATIN NAME

COMMON NAME

Acanthaceae

- ❑ *Acanthus mollis**

Bear's breach

Amaranthaceae

- ❑ *Amaranthus albus*
- ❑ ***Amaranthus blitoides***
- ❑ *Amaranthus retroflexus*

Tumbleweed

Prostrate pigweed

Rough pigweed

Anacardiaceae

- ❑ ***Rhus ovata****
- ❑ *Schinus molle**
- ❑ ***Toxicodendron diversiloba***

Sugar bush

Peruvian peppertree

Poison oak

Apiaceae

- ❑ *Anthriscus caucalis*
- ❑ *Conium maculatum*
- ❑ *Foeniculum vulgare*
- ❑ *Torilis arvensis*
- ❑ *Torilis nodosa*

Bur-chevril

Poison hemlock

Fennel

Field hedge parsley

Knotted hedge parsley

Apocynaceae

- ❑ *Trachelospermum jasminoides**
- ❑ *Vinca major*

Star jasmine

Periwinkle

Araceae

- ❑ *Alocasia macrorrhiza**
- ❑ *Monstera deliciosa**
- ❑ *Zantedeschia aethiopica**

Elephant's ear

Split leaf philodendron

Calla lily

Araliaceae

- ❑ *Hedera canariensis**
- ❑ *Hedera helix**

Algerian ivy

English ivy

Areaceae

- ❑ *Phoenix canariensis**
- ❑ ***Washingtonia filifera****
- ❑ *Washingtonia robusta**

Canary Island date palm

California fan palm

Mexican fan palm

Asteraceae

- ❑ *Artemisia douglasiana*
- ❑ ***Baccharis douglasii***
- ❑ ***Baccharis pilularis***
- ❑ *Carduus pycnocephalus*
- ❑ *Chamomilla suaveolens*

California mugwort

Marsh baccharis

Coyote brush

Italian thistle

Pineapple weed

<input type="checkbox"/> <i>Cirsium vulgare</i>	Bull thistle
<input type="checkbox"/> <i>Hypochaeris radicata</i>	Smooth cat's ear
<input type="checkbox"/> <i>Lactuca serriola</i>	Prickly lettuce
<input type="checkbox"/> <i>Picris echioides</i>	Bristly ox-tongue
<input type="checkbox"/> <i>Senecio vulgaris</i>	Groundsel
<input type="checkbox"/> <i>Silybum marianum</i>	Milk thistle
<input type="checkbox"/> <i>Sonchus asper</i> ssp. <i>asper</i>	Prickly sow-thistle
<input type="checkbox"/> <i>Taraxacum officinale</i>	Dandelion
Berberidaceae	
<input type="checkbox"/> <i>Berberis aquifolium</i> *	Oregon grape
Betulaceae	
<input type="checkbox"/> <i>Betula nigra</i> *	River birch
Bignoniaceae	
<input type="checkbox"/> <i>Campsis radicans</i> *	Common trumpetvine
<input type="checkbox"/> <i>Tecoma capensis</i> *	Cape honeysuckle
Brassicaceae	
<input type="checkbox"/> <i>Brassica nigra</i>	Black mustard
<input type="checkbox"/> <i>Brassica rapa</i>	Field mustard
<input type="checkbox"/> <i>Capsella bursa-pastoris</i>	Shepherd's purse
<input type="checkbox"/> <i>Cardamine oligosperma</i>	Bittercress
<input type="checkbox"/> <i>Hirschfeldia incana</i>	Hoary mustard
<input type="checkbox"/> <i>Raphanus sativus</i>	Wild radish
<input type="checkbox"/> <i>Rorippa nasturtium-aquaticum</i>	Watercress
Campanulaceae	
<input type="checkbox"/> <i>Campanula medium</i> *	Canterbury bells
Caprifoliaceae	
<input type="checkbox"/> <i>Sambucus mexicana</i>	Blue elderberry
<input type="checkbox"/> <i>Symphoricarpos albus</i> ssp. <i>laevigatus</i>	Snowberry
Caryophyllaceae	
<input type="checkbox"/> <i>Dianthus deltoides</i> *	Maiden pink
<input type="checkbox"/> <i>Stellaria media</i>	Chickweed
Celastraceae	
<input type="checkbox"/> <i>Euonymus japonicus</i> *	Japanese spindle tree
Convolvulaceae	
<input type="checkbox"/> <i>Convolvulus arvensis</i>	Bindweed
<input type="checkbox"/> <i>Convolvulus cneorum</i> *	Bush morning glory
Cornaceae	
<input type="checkbox"/> <i>Aucuba japonica</i> *	Varigated gold dust plant
Crassulaceae	
<input type="checkbox"/> <i>Sedum telphium</i> "Autumn joy"*	Stone crop
Cucurbitaceae	
<input type="checkbox"/> <i>Marah fabaceus</i>	California manroot
Cupressaceae	

<input type="checkbox"/> <i>Calocedrus decurrens</i> *	Incense cedar
<input type="checkbox"/> <i>Cupressocyparis leylandii</i> *	Leyland cypress
<input type="checkbox"/> <i>Cupressus funebris</i> *	Mourning cypress
<input type="checkbox"/> <i>Thuja occidentalis</i> *	American arborvitae
Cyperaceae	
<input type="checkbox"/> <i>Carex aquatalis</i> ssp. <i>dives</i>	Sitka sedge
<input type="checkbox"/> <i>Cyperus eragrostis</i>	Tall cyperus
<input type="checkbox"/> <i>Scirpus maritimus</i>	Prairie rush
Dennstaedtiaceae	
<input type="checkbox"/> <i>Pteridium aquilinum</i> *	Bracken fern
Ericaceae	
<input type="checkbox"/> <i>Arbutus unedo</i> *	Strawberry tree
<input type="checkbox"/> <i>Arctostaphylos manzanita</i> *	Common manzanita
<input type="checkbox"/> <i>Gaultheria shallon</i> *	Salal
Euphorbiaceae	
<input type="checkbox"/> <i>Euphorbia oblongata</i>	Oblong spurge
<input type="checkbox"/> <i>Euphorbia peplus</i>	Petty spurge
<input type="checkbox"/> <i>Euphorbia spathulata</i>	Spatulate leafed spurge
Fabaceae	
<input type="checkbox"/> <i>Acacia longifolia</i> *	Sydney golden wattle
<input type="checkbox"/> <i>Ceratonia siliqua</i> *	Carob
<input type="checkbox"/> <i>Gliditsia triacanthos</i> *	Honey locust
<input type="checkbox"/> <i>Medicago polymorpha</i>	California burclover
<input type="checkbox"/> <i>Prosopis glandulosa</i> var. <i>torreyana</i> *	Honey mesquite
<input type="checkbox"/> <i>Robinia pseudoacacia</i> *	Black locust
<input type="checkbox"/> <i>Trifolium incarnatum</i>	Crimson clover
<input type="checkbox"/> <i>Trifolium</i> sp.	Clover (lawn weed)
<input type="checkbox"/> <i>Vicia sativa</i> ssp. <i>nigra</i>	Spring vetch
<input type="checkbox"/> <i>Wisteria sinensis</i> *	Chinese wisteria
Fagaceae	
<input type="checkbox"/> <i>Quercus agrifolia</i>	Coastal live oak
<input type="checkbox"/> <i>Quercus garryana</i> *	Oregon white oak
<input type="checkbox"/> <i>Quercus lobata</i>	Valley Oak
<input type="checkbox"/> <i>Quercus suber</i> *	Cork oak
Garryaceae	
<input type="checkbox"/> <i>Garrya elliptica</i> *	Coast silk tassel
Geraneaceae	
<input type="checkbox"/> <i>Erodium botrys</i>	Long-beaked stork's bill
<input type="checkbox"/> <i>Erodium cicutarium</i>	Red-stemmed stork's bill
<input type="checkbox"/> <i>Erodium moschatum</i>	Whitestem filaree
<input type="checkbox"/> <i>Geranium dissectum</i>	Cut-leaf geranium
<input type="checkbox"/> <i>Geranium molle</i>	Crane's bill geranium
<input type="checkbox"/> <i>Pelargonium hortorum</i> *	Common geranium

Grossulariaceae

- ❑ *Ribes speciosum**

Fuchsia flowered gooseberry

Hamamelidaceae

- ❑ *Liquidamber styraciflua**

Sweetgum

Hippocastanaceae

- ❑ *Aesculus californica*

California buckeye

Iridaceae

- ❑ *Chasmanthe aethiopica**
- ❑ *Gladiolus hortus**
- ❑ *Iris douglasiana**
- ❑ *Iris germanica**

Chasmanthe

Gladiolus

Douglas iris

Bearded iris

Juglandaceae

- ❑ *Carya illinoensis**
- ❑ *Juglans californica* var. *hindsii*
- ❑ *Juglans regia*

Pecan

California black walnut

English walnut

Juncaceae

- ❑ *Juncus patens*

Spreading rush

Lamiaceae

- ❑ *Lamium amplexicaule*
- ❑ *Lavandula angustifolia**
- ❑ *Lavandula dentata**
- ❑ *Mentha spicata* var. *spicata*
- ❑ *Rosmarinus officinalis**
- ❑ *Salvia clevelandii**
- ❑ *Salvia greggii**
- ❑ *Salvia leucophylla**
- ❑ *Salvia splendens**
- ❑ *Salvia sonomensis**

Clasping henbit

French lavender

Fringed lavender

Spearmint

Rosemary

Cleveland sage

Autumn sage

Purple sage

Scarlet sage

Sonoma sage

Lauraceae

- ❑ *Laurus nobilis**
- ❑ *Umbellularia californica**

Sweet bay

California bay laurel

Liliaceae

- ❑ *Agapanthus orientalis**
- ❑ *Agave americana**
- ❑ *Allium neopolitana**
- ❑ *Amaryllis belladonna**
- ❑ *Kniphofia uvaria**
- ❑ *Narcissus* sp.*

Lily of the Nile

Century plant

White garlic

Naked lady

Red hot poker

Daffodil, Narcissus

Malvaceae

- ❑ *Malva nicaeensis*
- ❑ *Malvella leprosa*

Bull mallow

Alkali mallow

Moraceae

- ❑ *Ficus carica**

Fig

<input type="checkbox"/> <i>Ficus pumila</i> *	Creeping fig
<input type="checkbox"/> <i>Morus alba</i> *	White mulberry
Myricaceae	
<input type="checkbox"/> <i>Myrica californica</i> *	Pacific wax myrtle
Myrtaceae	
<input type="checkbox"/> <i>Callistemon citrinus</i> *	Lemon bottlebrush
<input type="checkbox"/> <i>Eucalyptus spp.</i> *	[See Master List for detail]
<input type="checkbox"/> <i>Feijoa sellowiana</i> *	Pineapple guava
<input type="checkbox"/> <i>Myrtus communis</i> *	True myrtle
Oleaceae	
<input type="checkbox"/> <i>Ligustrum ovalifolium</i> *	Privet
<input type="checkbox"/> <i>Olea europea</i> *	Olive
<input type="checkbox"/> <i>Osmanthus heterophyllus</i> *	False holly
<input type="checkbox"/> <i>Syringa vulgaris</i> *	Common lilac
Onagraceae	
<input type="checkbox"/> <i>Epilobium canum ssp. canum</i> *	California fuchsia
<input type="checkbox"/> <i>Epilobium ciliatum ssp. ciliatum</i>	Willow herb
<input type="checkbox"/> <i>Epilobium minutum</i>	Slender annual fireweed
<input type="checkbox"/> <i>Gaura lindheimeri</i> *	Gaura
Oxalidaceae	
<input type="checkbox"/> <i>Oxalis pes-caprae</i>	Bermuda buttercup
Papaveraceae	
<input type="checkbox"/> <i>Eschscholzia californica</i>	California poppy
<input type="checkbox"/> <i>Romneya coulteri</i> *	Matilija poppy
Philadelphaceae	
<input type="checkbox"/> <i>Philadelphus lewisii</i> *	Mock orange
Pinaceae	
<input type="checkbox"/> <i>Cedrus atlantica</i> *	Atlas cedar
<input type="checkbox"/> <i>Cedrus deodara</i> *	Deodar cedar
<input type="checkbox"/> <i>Cedrus libani</i> *	Cedar of Lebanon
<input type="checkbox"/> <i>Picea glauca</i> *	White spruce
<input type="checkbox"/> <i>Picea pungens</i> *	Colorado spruce
<input type="checkbox"/> <i>Picea sitchensis</i> *	Sitka spruce
<input type="checkbox"/> <i>Pinus ponderosa</i> *	Ponderosa pine
<input type="checkbox"/> <i>Pinus radiata</i> *	Monterey pine
<input type="checkbox"/> <i>Pseudotsuga menziesii</i> *	Douglas fir
Pittosporaceae	
<input type="checkbox"/> <i>Pittosporum tobira</i> *	Japanese mock-orange
Plantaginaceae	
<input type="checkbox"/> <i>Plantago lanceolata</i>	Lanceleaf plantain, English plantain
<input type="checkbox"/> <i>Plantago major</i>	Big-leafed plantain
Poaceae	
<input type="checkbox"/> <i>Agrostis stolonifera</i>	Creeping bent

- ❑ *Arundo donax*
- ❑ *Avena fatua*
- ❑ ***Bromus carinatus* var. *carinatus***
- ❑ *Bromus diandrus*
- ❑ *Bromus hordeaceus*
- ❑ *Cynodon dactylon*
- ❑ ***Festuca rubra****
- ❑ *Hordeum marinum* ssp. *gussoneanum*
- ❑ *Hordeum murinum* ssp. *leporinum*
- ❑ ***Leymus triticoides***
- ❑ *Lolium multiflorum*
- ❑ ***Melica californica***
- ❑ ***Nassella pulchra***
- ❑ *Phalaris aquatica*
- ❑ *Poa annua*
- ❑ *Poa pratensis*
- ❑ *Polypogon monspeliensis*
- ❑ *Triticum aestivum*
- ❑ *Vulpia myuros* ssp. *hirsuta*

Polygonaceae

- ❑ *Polygonum arenastrum*
- ❑ *Rumex crispus*
- ❑ *Rumex pulcher*

Portulacaceae

- ❑ *Claytonia perfoliata* ssp. *perfoliata*
- ❑ *Portulaca oleracea*

Primulaceae

- ❑ *Anagallis arvensis*

Punicaceae

- ❑ *Punica granatum**

Ranunculaceae

- ❑ *Clematis armanii**

Roseaceae

- ❑ *Chaenomeles lagenaria**
- ❑ *Cotoneaster dammeri**
- ❑ *Cotoneaster franchetii**
- ❑ *Cotoneaster lacteus**
- ❑ *Crataegus laevigata**
- ❑ *Cydonia oblonga**
- ❑ *Eriobotrya japonica**
- ❑ ***Heteromeles arbutifolia***
- ❑ *Malus sylvestris**
- ❑ *Prunus armeniaca**

- Giant reed
- Wild oat
- California brome
- Rip-gut brome
- Soft chess
- Bermuda grass
- Red fescue
- Mouse barley
- Foxtail barley
- Creeping wild rye
- Italian rye grass
- California melic
- Purple needlegrass
- Harding grass, Canary grass
- Annual bluegrass
- Kentucky bluegrass
- Rabbit's foot grass
- Wheat
- Rat-tail fescue

- Common knotweed
- Curley dock, Yellow dock
- Fiddle dock

- Miner's lettuce
- Common purslane

- Scarlet pimpernel

- Pomegranite

- Evergreen clematis

- Japanese quince
- Bearberry cotoneaster
- Franchet cotoneaster
- Big-leaved cotoneaster
- English hawthorn
- Quince
- Loquat
- Toyon
- Apple
- Apricot

<input type="checkbox"/> <i>Prunus avium</i> *	Sweet cherry
<input type="checkbox"/> <i>Prunus cerasifera</i> *	Cherry plum
<input type="checkbox"/> <i>Prunus domestica</i> *	Plum
<input type="checkbox"/> <i>Prunus dulcis</i> *	Almond
<input type="checkbox"/> <i>Prunus ilicifolia</i> ssp. <i>ilicifolia</i>*	Holly-leaved cherry
<input type="checkbox"/> <i>Prunus lyonii</i>*	Catalina cherry
<input type="checkbox"/> <i>Prunus persica</i> *	Peach
<input type="checkbox"/> <i>Prunus salicina</i> *	Japanese plum
<input type="checkbox"/> <i>Pyracantha coccinea</i> *	Firethorn
<input type="checkbox"/> <i>Pyrus communis</i> *	Common pear
<input type="checkbox"/> <i>Raphiolepis indica</i> *	Indian hawthorn
<input type="checkbox"/> <i>Rosa banksiae</i> *	Lady banks rose
<input type="checkbox"/> <i>Rosa californica</i>	California rose
<input type="checkbox"/> <i>Rosa harisonii</i> *	Harison's yellow rose
<input type="checkbox"/> <i>Rosa laevigata</i> *	Cherokee rose
<input type="checkbox"/> <i>Rosa</i> sp.*	Rose
<input type="checkbox"/> <i>Rubus discolor</i>	Himalaya blackberry
<input type="checkbox"/> <i>Spiraea prunifolia</i> *	Bridal-wreath spiraea
Rubiaceae	
<input type="checkbox"/> <i>Galium aparine</i>	Bedstraw
Rutaceae	
<input type="checkbox"/> <i>Citrus limon</i> *	Lemon
<input type="checkbox"/> <i>Citrus sinensis</i> *	Orange
Salicaceae	
<input type="checkbox"/> <i>Salix laevigata</i>	Red willow
<input type="checkbox"/> <i>Salix lasiolepis</i>	Arroyo willow
Saxifragaceae	
<input type="checkbox"/> <i>Bergenia crassifolia</i> *	Winter blooming bergenia
<input type="checkbox"/> <i>Carpenteria californica</i>*	Bush anemone
<input type="checkbox"/> <i>Deutzia scabra</i> *	Deutzia
<input type="checkbox"/> <i>Heuchera micrantha</i>*	Alum root, Coral bells
<input type="checkbox"/> <i>Hydrangea macrophylla</i> *	Big leaf hydrangea
Scrophulariaceae	
<input type="checkbox"/> <i>Kickxia elatine</i>	Fluellin
Solanaceae	
<input type="checkbox"/> <i>Nicotiana glauca</i> *	Tree tobacco
Sterculiaceae	
<input type="checkbox"/> <i>Fremontodendron californica</i>*	Flannel bush
Tamaricaceae	
<input type="checkbox"/> <i>Tamarix gallica</i> *	Tamarisk
Taxodiaceae	
<input type="checkbox"/> <i>Sequoia sempervirens</i> *	Coast redwood
<input type="checkbox"/> <i>Sequoiadendron giganteum</i> *	Giant sequoia

Thymelaeaceae

- *Daphne odora**

Winter daphne

Ulmaceae

- *Ulmus pumila**

Siberian elm

Urticaceae

- *Urtica dioica* ssp. *holosericea*

Hoary nettle

Valerianaceae

- *Centranthus ruber**

Red valerian

Verbenaceae

- *Phyla nodiflora* var. *nodiflora*

Common lippia

Viscaceae

- *Phoradendron macrophyllum*

Big leaf mistletoe

Vitaceae

- *Parthenocissus vitacea*

Woodbine, Virginia creeper

- *Vitis vinifera**

Grape

Zygophyllaceae

- *Tribulus terrestris*

Puncturevine

John Muir N.H.S. - Gravesite

- Species listed in **Boldface** are native to California
- Species followed by an asterisk (*) are planted ornamentals/fruit trees

LATIN NAME

COMMON NAME

Anacardiaceae

- ❑ *Toxicodendron diversiloba*

Poison oak

Apiaceae

- ❑ *Torilis arvensis*

Field hedge parsley

Apocynaceae

- ❑ *Nerium oleander**

Oleander

- ❑ *Vinca major**

Periwinkle

Araliaceae

- ❑ *Hedera helix**

English ivy

Asteraceae

- ❑ *Artemisia douglasiana*

California mugwort

- ❑ *Baccharis pilularis*

Coyote brush

- ❑ *Carduus pycnocephalus*

Italian thistle

- ❑ *Cirsium vulgare*

Bull thistle

- ❑ *Helenium puberulum*

Sneeze-weed, Rosilla

- ❑ *Lactuca serriola*

Prickly lettuce

- ❑ *Picris echioides*

Bristly ox-tongue

- ❑ *Senecio vulgaris*

Groundsel

- ❑ *Sonchus oleraceus*

Common sow thistle

- ❑ *Xanthium strumarium*

Cocklebur

Betulaceae

- ❑ *Corylus cornuta* var. *californica**

California hazelnut

Brassicaceae

- ❑ *Brassica rapa*

Field mustard

- ❑ *Cardamine oligosperma*

Bittercress

- ❑ *Rorippa nasturtium-aquaticum*

Watercress

Caprifoliaceae

- ❑ *Sambucus mexicana*

Black elderberry

Caryophyllaceae

- ❑ *Stellaria media*

Chickweed

Convolvulaceae

- ❑ *Convolvulus arvensis*

Bindweed

Cucurbitaceae

- ❑ *Marah fabaceus*

California manroot

Cupressaceae

- ❑ *Calocedrus decurrens**

Incense cedar

❑ <i>Cupressus</i> sp.*	Cypress
❑ <i>Juniperus</i> sp.*	Juniper
Dryopteridaceae	
❑ <i>Polystichum munitum</i>	Western sword fern
Euphorbiaceae	
❑ <i>Euphorbia oblongata</i>	Oblong spurge
❑ <i>Euphorbia peplus</i>	Petty spurge
Fabaceae	
❑ <i>Medicago polymorpha</i>	California bur clover
❑ <i>Melilotus indica</i>	Sour clover
❑ <i>Robinia pseudoacacia</i> *	Black locust
Fagaceae	
❑ <i>Quercus agrifolia</i>	Coastal live oak
❑ <i>Quercus lobata</i>	Valley oak
Geraneaceae	
❑ <i>Erodium moschatum</i>	Whitestem filaree
❑ <i>Geranium dissectum</i>	Cut-leaf geranium
Hamamelidaceae	
❑ <i>Liquidambar styraciflua</i> *	Sweetgum
Hippocastanaceae	
❑ <i>Aesculus californica</i>	California buckeye
Juglandaceae	
❑ <i>Juglans californica</i> var. <i>hindsii</i>	California black walnut
❑ <i>Juglans regia</i> *	English walnut
Lamiaceae	
❑ <i>Melissa officinalis</i>	Sweet melissa
❑ <i>Mentha spicata</i> var. <i>spicata</i>	Spearmint
❑ <i>Stachys ajugoides</i> var. <i>rigida</i>	Hedge nettle
Lauraceae	
❑ <i>Umbellularia californica</i>	California bay
Liliaceae	
❑ <i>Agapanthus orientalis</i> *	Lilly of the Nile
❑ <i>Narcissus</i> sp.*	Narcissus, Daffodil
Malvaceae	
❑ <i>Malva nicaeensis</i>	Bull mallow
Myrtaceae	
❑ <i>Eucalyptus viminalis</i> *	Manna gum
Oxalidaceae	
❑ <i>Oxalis pes-caprae</i>	Bermuda buttercup
Onagraceae	
❑ <i>Epilobium ciliatum</i> ssp. <i>ciliatum</i>	Willow herb
Papaveraceae	
❑ <i>Dicentra formosa</i>	Bleeding heart

❑ <i>Eschscholzia californica</i>	California poppy
Philadelphaceae	
❑ <i>Philadelphus lewisii</i> *	Mock orange
Pinaceae	
❑ <i>Cedrus atlantica</i> *	Atlas cedar
❑ <i>Pinus sabiniana</i> *	Grey Pine
❑ <i>Pinus</i> sp.*	Pine
Plantaginaceae	
❑ <i>Plantago major</i>	Big leaf plantain
Platanaceae	
❑ <i>Platanus racemosa</i>	California sycamore
Poaceae	
❑ <i>Arundo donax</i>	Giant reed
❑ <i>Avena fatua</i>	Wild oat
❑ <i>Avena barbata</i>	Slender wild oat
❑ <i>Bromus diandrus</i>	Rip-gut brome
❑ <i>Cynodon dactylon</i>	Bermuda grass
❑ <i>Cynosurus echinatus</i>	Hedgehog dogtail
❑ <i>Gastridium ventricosum</i>	Nit grass
❑ <i>Hordeum murinum</i> ssp. <i>leporinum</i>	Foxtail barley
❑ <i>Leymus triticoides</i>	Creeping wild rye
❑ <i>Lolium multiflorum</i>	Italian ryegrass
❑ <i>Poa annua</i>	Annual bluegrass
❑ <i>Polypogon monspeliensis</i>	Rabbit's foot grass
Polygonaceae	
❑ <i>Rumex crispus</i>	Curly dock, Yellow dock
❑ <i>Rumex pulcher</i>	Fiddle dock
Portulacaceae	
❑ <i>Claytonia perfoliata</i> ssp. <i>perfoliata</i>	Miner's lettuce
Primulaceae	
❑ <i>Anagalis arvensis</i>	Scarlet pimpernel
Punicaceae	
❑ <i>Punica granatum</i> *	Pomegranite
Roseaceae	
❑ <i>Crataegus laevigata</i> *	English hawthorn
❑ <i>Malus sylvestris</i> *	Apple
❑ <i>Pyrus communis</i> *	Common pear
❑ <i>Prunus cerasifera</i> *	Cherry plum
❑ <i>Prunus ilicifolia</i> ssp. <i>ilicifolia</i> *	Holly-leaved cherry
❑ <i>Prunus persica</i> *	Peach
❑ <i>Rosa californica</i>	California rose
❑ <i>Rubus discolor</i>	Himalaya blackberry
❑ <i>Rubus ursinus</i>	California blackberry

Rubiaceae

- *Galium aparine*

Bedstraw

Salicaceae

- *Salix laevigata*
- *Salix lasiolepis*

Red willow

Arroyo willow

Scrophulariaceae

- *Scrophularia californica* ssp. *californica*
- *Veronica persica*

Figwort

Persian speedwell

Taxodiaceae

- *Sequoia sempervirens**
- *Sequoiadendron giganteum**

Redwood

Giant sequoia

Urticaceae

- *Urtica dioica* ssp. *holosericea*

Hoary nettle

Vitaceae

- *Parthenocissus vitacea*

Woodbine, Virginia creeper

Zygophyllaceae

- *Tribulus terrestris*

Puncturevine

Eugene O'Neill N.H.S.

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LATIN NAME

COMMON NAME

Aceraceae

- ❑ *Acer macrophyllum*

Big-leafed maple

Amaranthaceae

- ❑ *Amaranthus albus*
- ❑ *Amaranthus blitoides*
- ❑ *Amaranthus powellii*
- ❑ *Amaranthus retroflexus*

Tumbleweed
Prostrate pigweed
Powell's pigweed
Rough pigweed

Anacardiaceae

- ❑ *Toxicodendron diversiloba*

Poison oak

Apiaceae

- ❑ *Anthriscus caucalis*
- ❑ *Heracleum lanatum*
- ❑ *Osmorhiza chilensis*
- ❑ *Sanicula crassicaulis*
- ❑ *Torilis arvensis*
- ❑ *Torilis nodosa*

Bur-chevril
Cow parsnip
Wood cicely
Pacific snakeroot
Field hedge parsley
Knotted hedge parsley

Aristolochiaceae

- ❑ *Aristolochia californica*

Dutchman's pipe

Asteraceae

- ❑ *Agoseris grandiflora*
- ❑ *Achillea millefolium*
- ❑ *Artemisia douglasiana*
- ❑ *Aster chilensis*
- ❑ *Aster radulinus*
- ❑ *Baccharis pilularis*
- ❑ *Carduus pycnocephalus*
- ❑ *Centaurea solstitialis*
- ❑ *Chamomilla suaveolens*
- ❑ *Cirsium vulgare*
- ❑ *Cynara cardunculus*
- ❑ *Filago gallica*
- ❑ *Gnaphalium luteo-album*
- ❑ *Helenium puberulum*
- ❑ *Hypochaeris glabra*
- ❑ *Hypochaeris radicata*
- ❑ *Lactuca serriola*

California dandelion
Yarrow
California mugwort
Common California aster
Broad-leaved aster, Woodland aster
Coyote brush
Italian thistle
Yellow star thistle
Pineapple weed
Bull thistle
Artichoke thistle
Fluffweed
Cudweed
Sneezeweed, Rosilla
Smooth cat's ear
Hairy cat's ear
Prickly lettuce

<input type="checkbox"/> <i>Madia gracilis</i>	Slender tarweed
<input type="checkbox"/> <i>Picris echioides</i>	Bristly ox-tongue
<input type="checkbox"/> <i>Senecio vulgaris</i>	Groundsel
<input type="checkbox"/> <i>Silybum marianum</i>	Milk thistle
<input type="checkbox"/> <i>Soliva sessilis</i>	South American soliva
<input type="checkbox"/> <i>Sonchus asper</i> ssp. <i>asper</i>	Prickly sow thistle
<input type="checkbox"/> <i>Taraxacum officinale</i>	Dandelion
<input type="checkbox"/> <i>Tragopogon porrifolius</i>	Salsify
<input type="checkbox"/> <i>Xanthium spinosum</i>	Spiny cocklebur
Blechnaceae	
<input type="checkbox"/> <i>Woodwardia fimbriata</i>	Giant chain fern
Boraginaceae	
<input type="checkbox"/> <i>Amsynchia menziesii</i> var. <i>intermedia</i>	Common fiddleneck
<input type="checkbox"/> <i>Cynoglossum grande</i>	Grand hound's tongue
<input type="checkbox"/> <i>Myosotis latifolia</i>	Forget-me-not
Brassicaceae	
<input type="checkbox"/> <i>Brassica rapa</i>	Field mustard
<input type="checkbox"/> <i>Capsella bursa-pastoris</i>	Shepherd's purse
<input type="checkbox"/> <i>Cardamine californica</i>	Milkmaids
<input type="checkbox"/> <i>Cardamine oligosperma</i>	Bittercress
<input type="checkbox"/> <i>Lepidium nitidum</i> var. <i>nitidum</i>	Poorman's peppergrass
<input type="checkbox"/> <i>Raphanus sativus</i>	Wild radish
<input type="checkbox"/> <i>Sisymbrium officinale</i>	Hedge mustard
<input type="checkbox"/> <i>Sinapis arvensis</i>	Charlock
Caprifoliaceae	
<input type="checkbox"/> <i>Lonicera hispidula</i> var. <i>vacillans</i>	California honeysuckle
<input type="checkbox"/> <i>Sambucus mexicana</i>	Black elderberry
<input type="checkbox"/> <i>Symphoricarpos albus</i> var. <i>laevigatus</i>	Snowberry
Caryophyllaceae	
<input type="checkbox"/> <i>Polycarpon tetraphyllum</i>	Four-leafed allseed
<input type="checkbox"/> <i>Spergula arvensis</i>	Spurrey
<input type="checkbox"/> <i>Spergularia rubra</i>	Sand spurrey
<input type="checkbox"/> <i>Stellaria media</i>	Chickweed
Convolvulaceae	
<input type="checkbox"/> <i>Convolvulus arvensis</i>	Bindweed
Cucurbitaceae	
<input type="checkbox"/> <i>Marah fabaceus</i>	California manroot
Dryopteridaceae	
<input type="checkbox"/> <i>Dryopteris arguta</i>	Wood fern
<input type="checkbox"/> <i>Polystichum munitum</i>	Western sword fern
Equisetaceae	
<input type="checkbox"/> <i>Equisetum telmateia</i> ssp. <i>braunii</i>	Giant horsetail
Ericaceae	

- ❑ *Arbutus menziesii*

Madrone

Euphorbiaceae

- ❑ *Chamaesyce maculata*
- ❑ *Eremocarpus setigerus*
- ❑ *Euphorbia peplus*

Spotted spurge
Dove weed, Turkey mullein
Petty spurge

Fabaceae

- ❑ *Lathyrus vestitus* var. *vestitus*
- ❑ *Lupinus nanus*
- ❑ *Medicago arabica*
- ❑ *Medicago polymorpha*
- ❑ *Trifolium dubium*
- ❑ *Trifolium glomeratum*
- ❑ *Trifolium hirtum*
- ❑ *Trifolium subterraneum*
- ❑ *Vicia benghalensis*
- ❑ *Vicia sativa* ssp. *nigra*

Hillside pea
Sky lupine
Spotted bur clover
California bur clover
Little hop clover, Shamrock
Clustered clover
Rose clover
Subterranean clover
Purple vetch
Spring vetch

Fagaceae

- ❑ *Quercus agrifolia*
- ❑ *Quercus kelloggii*
- ❑ *Quercus lobata*

Coastal live oak
Black oak
Valley oak

Geraniaceae

- ❑ *Erodium botrys*
- ❑ *Erodium cicutarium*
- ❑ *Erodium moschatum*
- ❑ *Geranium dissectum*

Long-beaked stork's bill
Red-stemmed stork's bill
Whitestem filaree
Cut-leaved geranium

Hippocastanaceae

- ❑ *Aesculus californica*

California buckeye

Hydrophyllaceae

- ❑ *Nemophila heterophylla*

Canyon nemophila

Iridaceae

- ❑ *Sisyrinchium bellum*

Blue-eyed grass

Juglandaceae

- ❑ *Juglans californica* var. *hindsii**
- ❑ *Juglans regia**

California black walnut
English walnut

Juncaceae

- ❑ *Juncus patens*
- ❑ *Juncus xiphioides*

Spreading rush
Iris-leaved rush

Lamiaceae

- ❑ *Lamium amplexicaule*
- ❑ *Satureja douglasii*
- ❑ *Stachys ajugoides* ssp. *rigida*

Clasping henbit
Yerba buena
Hedge nettle

Lauraceae

- ❑ *Umbellularia californica*

California bay

Liliaceae

- ❑ *Calochortus albus* White globe lily
- ❑ *Dichelostemma capitatum* ssp. *capitatum* Blue dicks
- ❑ *Dichelostemma congestum* Round-toothed ookow
- ❑ *Chlorogalum pomeridianum* ssp. *pomeridianum* Wavy-leaved soap plant
- ❑ *Smilacena stellata* False solomon's seal
- ❑ *Trillium chloropetalum* Giant trillium

Malvaceae

- ❑ *Malva nicaeensis* Bull mallow

Moraceae

- ❑ *Ficus carica* Fig

Myrtaceae

- ❑ *Eucalyptus globulus** Tasmanian bluegum

Onagraceae

- ❑ *Clarkia affinis* Chaparral clarkia
- ❑ *Clarkia purpurea* ssp. *quadrivulnera* Winecup clarkia
- ❑ *Epilobium brachycarpum* Annual fireweed
- ❑ *Epilobium ciliatum* ssp. *ciliatum* Willow herb

Oxalidaceae

- ❑ *Oxalis corniculata* Wood sorrel
- ❑ *Oxalis pes-caprae* Bermuda buttercup

Papaveraceae

- ❑ *Eschscholzia californica* California poppy

Pinaceae

- ❑ *Pinus sabiniana** Grey Pine

Plantaginaceae

- ❑ *Plantago lanceolata* Lanceleaf plantain, English plantain

Poaceae

- ❑ *Aira caryophylla* Hairgrass
- ❑ *Avena barbata* Slender wild oat
- ❑ *Avena fatua* Wild oat
- ❑ *Briza minor* Quaking grass
- ❑ *Bromus carinatus* var. *carinatus* California brome
- ❑ *Bromus diandrus* Rip-gut brome
- ❑ *Bromus hordeaceus* Soft chess
- ❑ *Cynodon dactylon* Bermuda grass
- ❑ *Cynosorus echinatus* Hedgehog dogtail
- ❑ *Dactylis glomerata* Orchard grass
- ❑ *Deschampsia elongata* Slender hairgrass
- ❑ *Elymus glaucus* Blue wildrye
- ❑ *Hordeum marinum* ssp. *gussoneanum* Mouse barley
- ❑ *Hordeum murinum* ssp. *leporinum* Foxtail barley
- ❑ *Lolium multiflorum* Italian rye grass

❑ <i>Melica torreyana</i>	Torrey melic
❑ <i>Phalaris aquatica</i>	Harding grass
❑ <i>Phalaris minor</i>	Littleseed canary grass
❑ <i>Piptatherum milliaceum</i>	Smilo grass
❑ <i>Poa annua</i>	Annual bluegrass
❑ <i>Polypogon monspeliensis</i>	Rabbit's foot grass
❑ <i>Triticum aestivum</i>	Wheat
❑ <i>Vulpia bromoides</i>	Brome fescue
❑ <i>Vulpia myuros</i> ssp. <i>myuros</i>	Fox-tail fescue
Polygonaceae	
❑ <i>Polygonum arenastrum</i>	Common knotweed
❑ <i>Rumex crispus</i>	Curly dock, Yellow dock
❑ <i>Rumex pulcher</i>	Fiddle dock
Polypodiaceae	
❑ <i>Polypodium calirhiza</i>	California polypody
Portulacaceae	
❑ <i>Calandrinia ciliata</i>	Red maids
❑ <i>Claytonia perfoliata</i> ssp. <i>perfoliata</i>	Miner's lettuce
Primulaceae	
❑ <i>Anagallis arvensis</i>	Scarlet pimpernel
Pteridaceae	
❑ <i>Adiantum jordanii</i>	Maidenhair fern
❑ <i>Pentagramma triangularis</i>	Goldback fern
Ranunculaceae	
❑ <i>Ranunculus californicus</i>	California buttercup
Roseaceae	
❑ <i>Cotoneaster franchetii</i>	Franchet cotoneaster
❑ <i>Heteromeles arbutifolia</i>	Toyon
❑ <i>Rubus discolor</i>	Himalaya blackberry
❑ <i>Rubus ursinus</i>	California blackberry
❑ <i>Prunus cerasifera</i>	Cherry plum
❑ <i>Potentilla glandulosa</i> ssp. <i>glandulosa</i>	Sticky cinquefoil
Rubiaceae	
❑ <i>Galium aparine</i>	Bedstraw
❑ <i>Galium murale</i>	Tiny bedstraw
❑ <i>Galium porrigens</i> var. <i>porrigens</i>	Wall bedstraw
❑ <i>Sherardia arvensis</i>	Field madder
Salicaceae	
❑ <i>Salix lasiolepis</i>	Arroyo willow
Saxifragaceae	
❑ <i>Lithophragma heterophyllum</i>	Hillside woodland star
Scrophulariaceae	
❑ <i>Mimulus aurantiacus</i>	Sticky monkey flower

❑ *Scrophularia californica*

California figwort

❑ *Veronica persica*

Persian speedwell

Solanaceae

❑ *Solanum americanum*

Small-flowered nightshade

❑ *Solanum umbelliferum*

Blue-witch nightshade

Typhaceae

❑ *Typha latifolia*

Broad-leafed cattail

Urticaceae

❑ *Urtica dioica* ssp. *holosericea*

Stinging nettle, Hoary nettle

❑ *Urtica urens*

Dwarf nettle

Verbenaceae

❑ *Phyla nodiflora* var. *nodiflora*

Common lippia

Viscaceae

❑ *Phoradendron macrophyllum*

Big leaf mistletoe

❑ *Phoradendron villosum*

Oak mistletoe

Vitaceae

❑ *Vitis vinifera*

Grape

Zygophyllaceae

❑ *Tribulus terrestris*

Puncturevine

Port Chicago N.M.

LATIN NAME

COMMON NAME

Amaranthaceae

- ❑ *Amaranthus blitoides*

Prostrate pigweed

Aizoaceae

- ❑ *Carpobrotus edulis*

Iceplant

Apiaceae

- ❑ *Apium graveolens*
- ❑ *Foeniculum vulgare*

Celery

Fennel

Asteraceae

- ❑ *Baccharis pilularis*
- ❑ *Carduus pycnocephalus*
- ❑ *Gnaphalium luteo-album*
- ❑ *Grindelia stricta* var. *angustifolia*
- ❑ *Helenium puberulum*
- ❑ *Hypochaeris radicata*
- ❑ *Jaumea carnosa*
- ❑ *Lactuca serriola*
- ❑ *Picris echioides*
- ❑ *Sonchus asper* ssp. *asper*

Coyote brush

Italian thistle

Cudweed

Marsh gumplant

Sneezeweed, Rosilla

Hairy cat's ear

Fleshy jaumea

Prickly lettuce

Bristly ox-tongue

Prickly sow-thistle

Brassicaceae

- ❑ *Brassica nigra*
- ❑ *Hirschfeldia incana*
- ❑ *Lepidium latifolium*
- ❑ *Raphanus sativus*

Black mustard

Hoary mustard

Perennial pepperweed

Wild radish

Caryophyllaceae

- ❑ *Polycarpon tetraphyllum*
- ❑ *Spergularia rubra*

Four-leaved allseed

Sand spurrey

Chenopodiaceae

- ❑ *Atriplex triangularis*
- ❑ *Salicornia virginica*
- ❑ *Salsola soda*

Spearscale

Pickleweed

Russian thistle

Convolvulaceae

- ❑ *Convolvulus arvensis*

Bindweed

Cyperaceae

- ❑ *Scirpus americanus*
- ❑ *Scirpus californica*
- ❑ *Scirpus cernuus*

Three square

California bulrush

Low clubrush

Euphorbiaceae

- ❑ *Chamaesyce maculata*

Spotted spurge

Fabaceae

❑ <i>Lotus corniculatus</i>	Bird's foot lotus
❑ <i>Medicago polymorpha</i>	California bur clover
❑ <i>Melilotus alba</i>	White sweetclover
❑ <i>Melilotus indica</i>	Sour clover
Geraniaceae	
❑ <i>Erodium cicutarium</i>	Red-stemmed stork's bill
❑ <i>Geranium dissectum</i>	Cut-leaved geranium
❑ <i>Erodium moschatum</i>	Whitestem filaree
Juncaceae	
❑ <i>Juncus balticus</i>	Wire rush
Onagraceae	
❑ <i>Epilobium brachycarpum</i>	Annual fireweed
Papaveraceae	
❑ <i>Eschscholzia californica</i>	California poppy
Plumbaginaceae	
❑ <i>Limonium californicum</i>	Calif. sealavender, Marsh rosemary
Poaceae	
❑ <i>Avena fatua</i>	Wild oat
❑ <i>Bromus diandrus</i>	Rip-gut brome
❑ <i>Bromus hordeaceus</i>	Soft chess
❑ <i>Bromus madritensis ssp. rubens</i>	Foxtail chess, Red brome
❑ <i>Cynodon dactylon</i>	Bermuda grass
❑ <i>Deschampsia cespitosa ssp. holciformis</i>	Tufted hairgrass
❑ <i>Distichlis spicata</i>	Saltgrass
❑ <i>Hordeum brachyantherum ssp. brachyantherum</i>	Meadow barley
❑ <i>Lolium multiflorum</i>	Italian rye grass
❑ <i>Piptatherum miliaceum</i>	Smilo grass
❑ <i>Polypogon monspeliensis</i>	Rabbit's foot grass
❑ <i>Vulpia myuros ssp. myuros</i>	Fox-tail fescue
Plantaginaceae	
❑ <i>Plantago lanceolata</i>	Lanceleaf plantain, English plantain
❑ <i>Plantago major</i>	Big-leaf plantain
Polygonaceae	
❑ <i>Rumex crispus</i>	Curly dock, Yellow dock
Rosaceae	
❑ <i>Potentilla anserina ssp. pacifica</i>	Pacific silverweed

Plant Species Master List

John Muir National Historic Site, Eugene O'Neill National Historic Site, and Port Chicago National Monument

Species on this list are organized alphabetically by family, with genus and species names listed alphabetically within each family. Native taxa (California native plants) are shown in ***Bold Italic*** while non-native taxa are shown in *Regular Italic*. John Muir N.H.S. property is made up of three areas: Mount Wanda, the John Muir House property, and John Muir's gravesite. Because of the relatively large size of the Mount Wanda portion of John Muir N.H.S., we have divided the area into quadrants (NE, NW, SE, and SW) for the sake of making plant locations more specific. At times, locations for taxa at Eugene O'Neill will also be given similar quadrant labels. Flowering periods reflect those observed during the 2002 season and are given as rough estimates for when one would expect to see the plant in bloom. These dates may vary depending on the year and the location.

Abbreviations

JOMU = John Muir N.H.S.

EUON = Eugene O'Neill N.H.S.

POCH = Port Chicago N.M.

California Exotic Pest Plants Council Codes:

CalEPPC-A1 = Most Invasive Wildland Pest Plants, Widespread

CalEPPC-A2 = Most Invasive Wildland Pest Plants, Regional

CalEPPC-B = Wildland Pest Plants of Lesser Invasiveness

CalEPPC-N = Need More Information

CalEPPC-G = Other Annual Grasses of Concern

CalEPPC-? = Considered But Not Listed

California Department of Food and Agriculture Codes:

NOX-C = Extremely Widespread (Containment Efforts Not Recommended)

NOX-B = Widespread (Potentially Containable)

NOX-Unrated = Weeds Without an Established Rating

<p>Family: Acanthaceae Scientific Name: <i>Acanthus mollis</i> Common Name: Bear's breach Location: JOMU - House: East side of house near conservatory</p> <p>Habitat Type: Garden Growth Form: Perennial Herb Flowering Period: Spring-Summer Status: none Notes: Planted</p>
<p>Family: Aceraceae Scientific Name: <i>Acer macrophyllum</i> Common Name: Bigleaf maple Location: EUON - NE corner of property and SE slide area</p> <p>Habitat Type: Forest Growth Form: Tree Flowering Period: Spring Status: none Notes: none</p>
<p>Family: Aizoaceae Scientific Name: <i>Carpobrotus edulis</i> Common Name: Iceplant, Sea fig Location: POCH - Across road and on one pier piling</p> <p>Habitat Type: Ruderal Growth Form: Sprawling succulent Flowering Period: All year Status: CalEPPC-A1 Notes: none</p>
<p>Family: Amaranthaceae Scientific Name: <i>Amaranthus albus</i> Common Name: Tumbleweed Location: JOMU - House: Apple orchard, east side near entrance; EUON - Disked orchard</p> <p>Habitat Type: Orchard Growth Form: Herb Flowering Period: June-Aug Status: none Notes: none</p>

<p>Family: Amaranthaceae Scientific Name: <i>Amaranthus blitoides</i> Common Name: Prostrate pigweed Location: JOMU - Wanda: NE, Field near road; House: Orchards; Grave: Orchards; EUON - Ruderal, NW; POCH - Ruderal Habitat Type: Orchard/Ruderal Growth Form: Herb Flowering Period: May-June Status: none Notes: none</p>
<p>Family: Amaranthaceae Scientific Name: <i>Amaranthus powellii</i> Common Name: Powell's pigweed Location: EUON - Disked orchards Habitat Type: Orchard Growth Form: Herb Flowering Period: July-Sep Status: none Notes: none</p>
<p>Family: Amaranthaceae Scientific Name: <i>Amaranthus retroflexus</i> Common Name: Rough pigweed Location: JOMU - House: Orchards Habitat Type: Orchard Growth Form: Herb Flowering Period: June-Aug Status: none Notes: none</p>
<p>Family: Anacardiaceae Scientific Name: <i>Rhus ovata</i> Common Name: Sugar bush Location: JOMU - House: In native plant garden west of Franklin creek Habitat Type: All Growth Form: Shrub/small tree Flowering Period: March-May Status: none Notes: Planted, not historic, native to California but not locally</p>

<p>Family: Anacardiaceae Scientific Name: <i>Schinus molle</i> Common Name: Peruvian peppertree Location: JOMU – House: Southeast corner of property, along fence</p> <p>Habitat Type: Garden Growth Form: Tree Flowering Period: Summer Status: none Notes: Planted, not historic</p>
<p>Family: Anacardiaceae Scientific Name: <i>Toxicodendron diversiloba</i> Common Name: Poison oak Location: JOMU – Wanda: Ubiquitous; Grave: Riparian; House: Riparian; EUON – Ubiquitous Habitat Type: All Growth Form: Shrub/Subshrub/Vine Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Apiaceae Scientific Name: <i>Anthriscus caucalis</i> Common Name: Bur-chervil Location: JOMU – Wanda: Ubiquitous, generally in semi-shaded areas; House: Edge of fields, ruderal; EUON – Ubiquitous. Habitat Type: All Growth Form: Herb Flowering Period: April-May Status: none Notes: none</p>
<p>Family: Apiaceae Scientific Name: <i>Apium graveolens</i> Common Name: Celery Location: POCH – Brackish marsh near high tide line</p> <p>Habitat Type: Brackish Marsh Growth Form: Herb Flowering Period: May-July Status: none Notes: none</p>

<p>Family: Apiaceae Scientific Name: <i>Conium maculatum</i> Common Name: Poison hemlock Location: JOMU - Wanda: NW, Edge of breached pond; House: Riparian</p> <p>Habitat Type: Riparian/Ruderal Growth Form: Herb Flowering Period: May-July Status: CalEPPC-B Notes: none</p>
<p>Family: Apiaceae Scientific Name: <i>Daucus pusillus</i> Common Name: Rattlesnake weed Location: JOMU - Wanda: NE, Chaparral and Woodland</p> <p>Habitat Type: Chaparral/Woodland Growth Form: Herb Flowering Period: May-June Status: none Notes: none</p>
<p>Family: Apiaceae Scientific Name: <i>Foeniculum vulgare</i> Common Name: Fennel Location: JOMU - Wanda: NE, along railroad tracks; House: along south fence POCH - Ruderal</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: May-Aug Status: CalEPPC-A1 Notes: none</p>
<p>Family: Apiaceae Scientific Name: <i>Heracleum lanatum</i> Common Name: Cow parsnip Location: EUON - East, slide below park offices</p> <p>Habitat Type: Forest Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>

<p>Family: Apiaceae Scientific Name: <i>Lomatium utriculatum</i> Common Name: Bladder parsnip Location: JOMU - Wanda: NW-NE, scattered populations</p> <p>Habitat Type: Woodland Growth Form: Herb Flowering Period: March-April Status: none Notes: none</p>
<p>Family: Apiaceae Scientific Name: <i>Osmorhiza chilensis</i> Common Name: Wood cicely Location: JOMU - Wanda: NW, forest edge near base of chaparral</p> <p>Habitat Type: Forest Growth Form: Herb Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Apiaceae Scientific Name: <i>Perideridia kelloggii</i> Common Name: Yampah Location: JOMU - Wanda: All quadrants in patches</p> <p>Habitat Type: Woodland Growth Form: Herb Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Apiaceae Scientific Name: <i>Sanicula bipinnatifida</i> Common Name: Purple sanicle Location: JOMU - Wanda: NE-NW, scattered populations</p> <p>Habitat Type: Woodland Growth Form: Herb Flowering Period: Feb-April Status: none Notes: none</p>

<p>Family: Apiaceae Scientific Name: <i>Sanicula crassicaulis</i> Common Name: Pacific snakeroot Location: JOMU - Wanda: Ubiquitous</p> <p>Habitat Type: Woodland/Forest Growth Form: Herb Flowering Period: Feb-April Status: none Notes: none</p>
<p>Family: Apiaceae Scientific Name: <i>Scandix pecten-veneris</i> Common Name: Shepherd's needle Location: JOMU - Wanda: All quadrants, open areas</p> <p>Habitat Type: Woodland Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Apiaceae Scientific Name: <i>Torilis arvensis</i> Common Name: Field hedge parsley Location: JOMU - Wanda: Ubiquitous; House: Ubiquitous; Grave: Ubiquitous; EUON - Ubiquitous Habitat Type: Woodland Growth Form: Herb Flowering Period: May-June Status: none Notes: none</p>
<p>Family: Apiaceae Scientific Name: <i>Torilis nodosa</i> Common Name: Knotted hedge parsley Location: JOMU - Wanda: Ubiquitous; House: Ubiquitous; EUON - East forest Habitat Type: Woodland Growth Form: Herb Flowering Period: April-May Status: none Notes: none</p>

<p>Family: Apocynaceae Scientific Name: <i>Nerium oleander</i> Common Name: Oleander Location: JOMU - Grave: Planted along north border</p> <p>Habitat Type: Orchard Growth Form: Shrub Flowering Period: Feb-Oct Status: CalEPPC-? Notes: none</p>
<p>Family: Apocynaceae Scientific Name: <i>Trachelospermum jasminoides</i> Common Name: Star jasmine Location: JOMU - House: Along fence southwest of visitor center</p> <p>Habitat Type: Garden Growth Form: Vine Flowering Period: June-July Status: none Notes: Planted, not historic</p>
<p>Family: Apocynaceae Scientific Name: <i>Vinca major</i> Common Name: Periwinkle Location: JOMU - Wanda: NE hillside behind Maintenance and just south of main parking area; House: Along creek and elsewhere; Grave: Along creek</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: April-June Status: CalEPPC-B Notes: none</p>
<p>Family: Araceae Scientific Name: <i>Alocasia macrorrhiza</i> Common Name: Elephant's ear Location: JOMU - House: Conservatory</p> <p>Habitat Type: Garden Growth Form: Herb Flowering Period: Spring Status: none Notes: Planted</p>

<p>Family: Araceae Scientific Name: <i>Monstera deliciosa</i> Common Name: Split leaf philodendron Location: JOMU - House: Indoor, conservatory in Muir House</p> <p>Habitat Type: Garden Growth Form: Herb Flowering Period: n/a Status: none Notes: Planted, not historic</p>
<p>Family: Araceae Scientific Name: <i>Zantedeschia aethiopica</i> Common Name: Calla-lily Location: JOMU - Wanda: SW 1 population along drainage/road; House: in garden at Muir house, east of conservatory</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: March-May Status: CalEPPC-? Notes: Could be easily extirpated from Wanda</p>
<p>Family: Araliaceae Scientific Name: <i>Hedera canariensis</i> Common Name: Algerian ivy Location: JOMU - House: Northeast Muir house</p> <p>Habitat Type: Garden Growth Form: vine Flowering Period: N/A Status: CalEPPC-N Notes: none</p>
<p>Family: Araliaceae Scientific Name: <i>Hedera helix</i> Common Name: English ivy Location: JOMU - Grave: north border; House: along fence</p> <p>Habitat Type: Orchard/Ruderal Growth Form: Herb Flowering Period: N/A Status: CalEPPC-B Notes: none</p>

<p>Family: Arecaceae Scientific Name: <i>Phoenix canariensis</i> Common Name: Canary Island date palm Location: JOMU - House: Bent-over palm north of Muir house</p> <p>Habitat Type: Garden Growth Form: Tree Flowering Period: n/a Status: none Notes: Planted, Historic</p>
<p>Family: Arecaceae Scientific Name: <i>Washingtonia filifera</i> Common Name: California fan palm Location: JOMU - House: At front porch of Muir house</p> <p>Habitat Type: Garden Growth Form: Tree Flowering Period: n/a Status: none Notes: Planted, Historic; Native to CA, not to East Bay</p>
<p>Family: Arecaceae Scientific Name: <i>Washingtonia robusta</i> Common Name: Mexican fan palm Location: JOMU - House: Two trees in southeast corner of property, one just southwest of Muir house</p> <p>Habitat Type: Garden Growth Form: Tree Flowering Period: n/a Status: none Notes: Planted, Historic</p>
<p>Family: Aristolochiaceae Scientific Name: <i>Aristolochia californica</i> Common Name: Dutchman's pipe Location: JOMU - Wanda: NW-NE, heavily shaded forest and woodland EUON - East forest, wooded slopes above slide</p> <p>Habitat Type: Forest/Woodland Growth Form: Herb Flowering Period: Feb-April Status: none Notes: none</p>

Family: Asclepiadaceae Scientific Name: <i>Asclepias cordifolia</i> Common Name: Heart-leafed milkweed Location: JOMU - Wanda: NW and NE; few plants on hill near fence-line in NW, and few plants on hill above main trail in NE Habitat Type: Woodland Growth Form: Herb Flowering Period: March-May Status: Ua1; 1 of 2 known locations or fewer in the East Bay Notes: none
Family: Asclepiadaceae Scientific Name: <i>Asclepias fascicularis</i> Common Name: Narrow-leafed milkweed Location: JOMU - Wanda: NW-NE, on top along fire road Habitat Type: Ruderal Growth Form: Herb Flowering Period: May-June Status: none Notes: none
Family: Asteraceae Scientific Name: <i>Achillea millefolium</i> Common Name: Yarrow Location: JOMU - Wanda: All quadrants EUON - Wooded areas Habitat Type: Woodland Growth Form: Herb Flowering Period: May-July Status: none Notes: none
Family: Asteraceae Scientific Name: <i>Achyrrachaena mollis</i> Common Name: Blow wives Location: JOMU - Wanda: All quadrants, along roads on top of Mt. Wanda Habitat Type: Ruderal Growth Form: Herb Flowering Period: April-May Status: none Notes: none

<p>Family: Asteraceae Scientific Name: <i>Agoseris grandiflora</i> Common Name: California dandelion Location: JOMU - Wanda: NE-NW, along roads, trails, deer paths EUON - Field edges Habitat Type: Ruderal/Woodland Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Artemisia californica</i> Common Name: California sagebrush Location: JOMU - Wanda: NW-NE Habitat Type: Chaparral Growth Form: Shrub Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Artemisia douglasiana</i> Common Name: California mugwort Location: JOMU - Wanda: All quadrants; Grave: Riparian; House: Riparian EUON - East side slide area Habitat Type: Woodland/Chaparral/Riparian Growth Form: Herb Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Aster chilensis</i> Common Name: Common California aster Location: JOMU - Wanda: NE-NW, large patch in open grassland on top of Mt. Wanda, scattered plants above train tunnel; EUON - Below park office Habitat Type: Woodland/Forest/Grassland Growth Form: Herb Flowering Period: June-Aug Status: none Notes: none</p>

<p>Family: Asteraceae Scientific Name: <i>Aster radulinus</i> Common Name: Broad-leaved aster, Woodland aster; Location: JOMU - Wanda: All quadrants in woodland EUON - Forest Habitat Type: Woodland/Forest Growth Form: Herb Flowering Period: June-Aug Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Baccharis douglasii</i> Common Name: Marsh baccharis Location: JOMU - House: Riparian Habitat Type: Riparian Growth Form: Herb Flowering Period: July-Sep Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Baccharis pilularis</i> Common Name: Coyote brush Location: JOMU - Wanda: All quadrants; Grave: Orchard edge; House: Along fence; EUON - Scattered in open areas; POCH - One bush near pier Habitat Type: All Growth Form: Shrub Flowering Period: Aug-Oct Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Carduus pycnocephalus</i> Common Name: Italian thistle Location: JOMU - Wanda: Ubiquitous; Grave: Ubiquitous; House: Ubiquitous; EUON - Ubiquitous; POCH - Ubiquitous Habitat Type: All Growth Form: Herb Flowering Period: May-July Status: CalEPPC-B; NOX-C Notes: none</p>

<p>Family: Asteraceae Scientific Name: <i>Centaurea calcitrapa</i> Common Name: Purple star thistle Location: JOMU - Wanda: SE, in disturbed field</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: July-Sep Status: CalEPPC-B; NOX-B Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Centaurea melitensis</i> Common Name: Tocalote Location: JOMU - Wanda: SW-NW-NE, small patches</p> <p>Habitat Type: Woodland/Grassland Growth Form: Herb Flowering Period: May-July Status: CalEPPC-B; NOX-Non-Rated Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Centaurea solstitialis</i> Common Name: Yellow star thistle Location: JOMU - Wanda: All quadrants; EUON - NW near barn and NE field</p> <p>Habitat Type: Grassland Growth Form: Herb Flowering Period: June-Aug Status: CalEPPC-A1; NOX-C Notes: Widespread, difficult to control/extirpate</p>
<p>Family: Asteraceae Scientific Name: <i>Chamomilla suaveolens</i> Common Name: Pineapple weed Location: JOMU - Wanda: All quadrants along fire roads; House: Along paths EUON - Along dirt roads</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>

<p>Family: Asteraceae Scientific Name: <i>Cichorium intybus</i> Common Name: Chicory Location: JOMU - Wanda: Near maintenance</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: June-July Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Cirsium vulgare</i> Common Name: Bull thistle Location: JOMU - Wanda: North along tracks; Grave: Orchard near entrance; House: Riparian. EUON - East side slide area, SW undisked field</p> <p>Habitat Type: Ruderal/Riparian Growth Form: Herb Flowering Period: June-August Status: CalEPPC-B; NOX-Non-Rated Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Conyza bonariensis</i> Common Name: South American horseweed Location: JOMU - Wanda: NE-NW, along train tracks</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: July-August Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Conyza canadensis</i> Common Name: Canadian horseweed Location: JOMU - Wanda: NE-NW, along train tracks</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: July-August Status: none Notes: none</p>

Family: Asteraceae
 Scientific Name: *Cynara cardunculus*
 Common Name: Artichoke thistle
 Location: **JOMU** - Wanda: SE on grassy slopes;
 EUON - Ruderal next to wagon in NW
 Habitat Type: Grassland/Ruderal
 Growth Form: Herb
 Flowering Period: May-July
 Status: CalEPPC-A1; NOX-B
 Notes: none

Family: Asteraceae
 Scientific Name: *Eriophyllum confertiflorum* var. *confertiflorum*
 Common Name: Golden yarrow
 Location: **JOMU** - Wanda: NE-NW, wild flower trail, also above train tunnel and on
 cliff over tracks
 Habitat Type: Woodland/Chaparral
 Growth Form: Shrub
 Flowering Period: April-June
 Status: none
 Notes: none

Family: Asteraceae
 Scientific Name: *Filago gallica*
 Common Name: Fluffweed
 Location: **JOMU** - Wanda: NW-NE, small patches;
 EUON - Ruderal near barn
 Habitat Type: Woodland/Chaparral/Ruderal
 Growth Form: Herb
 Flowering Period: May-June
 Status: none
 Notes: none

Family: Asteraceae
 Scientific Name: *Gnaphalium californicum*
 Common Name: California everlasting
 Location: **JOMU** - Wanda: NW-NE, small patches in chaparral

 Habitat Type: Chaparral
 Growth Form: Herb
 Flowering Period: May-July
 Status: none
 Notes: none

<p>Family: Asteraceae Scientific Name: <i>Gnaphalium luteo-album</i> Common Name: Cudweed Location: JOMU - Wanda: SE, ruderal EUON - Ruderal near park office Habitat Type: Ruderal Growth Form: Herb Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Grindelia camporum</i> var. <i>camporum</i> Common Name: Common gum plant Location: JOMU - Wanda: NE, trailhead to train tracks Habitat Type: Woodland/Ruderal Growth Form: Herb Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Grindelia stricta</i> var. <i>angustifolia</i> Common Name: Marsh gum plant Location: POCH - Edge of brackish marsh Habitat Type: Brackish Marsh Growth Form: Herb Flowering Period: Aug-Oct Status: C4 - Plant of Limited Distribution (CNPS Inventory) Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Helenium puberulum</i> Common Name: Sneeze-weed, Rosilla Location: JOMU - Grave: Riparian; EUON - East side slide area; POCH - Brackish marsh Habitat Type: Riparian/Brackish Marsh Growth Form: Herb Flowering Period: June-July Status: none Notes: none</p>

<p>Family: Asteraceae Scientific Name: <i>Helianthella castanea</i> Common Name: Mount Diablo sunflower Location: JOMU - Wanda: NE-NW ecotones of woodland and chaparral</p> <p>Habitat Type: Woodland/Chaparral Growth Form: Herb Flowering Period: April-June Status: FC2 - Federal Endangered Species Candidate Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Helianthus annuus</i> Common Name: Sunflower Location: JOMU - Wanda: NE, near maintenance</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: April-June Status: None Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Holocarpha heermannii</i> Common Name: Heermann's tarweed Location: JOMU - Wanda: all quadrants</p> <p>Habitat Type: Grassland Growth Form: Herb Flowering Period: July-Sept Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Hypochaeris glabra</i> Common Name: Smooth cat's ear Location: JOMU - Wanda: NW, flower trail near <i>Allium</i> patch</p> <p>Habitat Type: Woodland Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>

<p>Family: Asteraceae Scientific Name: <i>Hypochaeris radicata</i> Common Name: Hairy cat's ear Location: JOMU - Wanda: Ubiquitous; House: Ruderal EUON - Ruderal, ubiquitous. POCH - Ruderal Habitat Type: Ruderal/Grassland/Woodland Growth Form: Herb Flowering Period: March-July Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Jaumea carnosa</i> Common Name: Fleshy jaumea Location: POCH - Brackish marsh near <i>Salicornia</i> Habitat Type: Brackish Marsh Growth Form: Herb Flowering Period: July-Sep Status: Lake's Watch List Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Lactuca serriola</i> Common Name: Prickly lettuce Location: JOMU - Wanda: All quadrants, ruderal and grassland; House: Ruderal/edges; EUON - Ruderal; POCH - Ruderal Habitat Type: Ruderal/Grassland Growth Form: Herb Flowering Period: June-Aug Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Lactuca virosa</i> Common Name: Wild lettuce Location: JOMU - Wanda: NE, 1 population above train tunnel on ridge Habitat Type: Woodland Growth Form: Herb Flowering Period: June-Aug Status: none Notes: none</p>

<p>Family: Asteraceae Scientific Name: <i>Lagophylla ramosissima ssp. ramosissima</i> Common Name: Common hareleaf Location: JOMU - Wanda: NW, open grassy area on slope</p> <p>Habitat Type: Woodland Growth Form: Herb Flowering Period: June-July Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Madia elegans ssp. densiflora</i> Common Name: Common tarweed Location: JOMU - Wanda: NE; above and below tracks, near main entrance</p> <p>Habitat Type: Woodland/Ruderal Growth Form: Herb Flowering Period: June-July Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Madia gracilis</i> Common Name: Slender tarweed Location: JOMU - Wanda: All quadrants; EUON - Grassland, E and NE Habitat Type: Grassland/Woodland Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Micropus californicus var. californicus</i> Common Name: Slender cottonweed Location: JOMU - Wanda: NE-NW-SW, patches in sunny areas</p> <p>Habitat Type: Woodland/Ruderal Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>

<p>Family: Asteraceae Scientific Name: <i>Picris echioides</i> Common Name: Bristly ox-tongue Location: JOMU - Wanda: Ubiquitous; House - Ubiquitous; EUON - Ubiquitous; POCH - Ruderal Habitat Type: Grassland/Woodland/Ruderal Growth Form: Herb Flowering Period: June-Aug Status: CalEPPC-? Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Psilocarphus tenellus</i> var. <i>tenellus</i> Common Name: Woolly head Location: JOMU - Wanda: NW on road Habitat Type: Ruderal Growth Form: Herb Flowering Period: April-May Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Senecio vulgaris</i> Common Name: Groundsel Location: JOMU - Wanda: Ubiquitous; House - Ubiquitous; Grave - Ubiquitous; EUON - Ubiquitous; POCH - Ruderal Habitat Type: Grassland/Woodland/Ruderal Growth Form: Herb Flowering Period: March-May Status: NOX-Non-Rated Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Silybum marianum</i> Common Name: Milk thistle Location: JOMU - Wanda: Ubiquitous; House - Ubiquitous; Grave - Ubiquitous; EUON - Ubiquitous; POCH - Ruderal Habitat Type: Grassland/Woodland/Ruderal Growth Form: Herb Flowering Period: June-Aug Status: CalEPPC-? Notes: none</p>

<p>Family: Asteraceae Scientific Name: <i>Solidago californica</i> Common Name: California goldenrod Location: JOMU - Wanda: SW, 1 population above fire road near patch of <i>Lathyrus latifolius</i> Habitat Type: Grassland/Woodland Growth Form: Herb Flowering Period: June-Aug Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Soliva sessilis</i> Common Name: South American soliva Location: JOMU - Wanda: All quadrants along roads; EUON - Ruderal near barn Habitat Type: Ruderal Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Sonchus asper</i> ssp. <i>asper</i> Common Name: Prickly sow thistle Location: JOMU - Wanda: All quadrants along roads and in fields; House: Ruderal; EUON - Ubiquitous along roads and in grassland; POCH - Ruderal Habitat Type: Ruderal/Grassland Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Sonchus oleraceus</i> Common Name: Common sow thistle Location: JOMU - Wanda: All quadrants, ruderal areas and grassland Habitat Type: Ruderal/Grassland Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>

<p>Family: Asteraceae Scientific Name: <i>Taraxacum officinale</i> Common Name: Dandelion Location: JOMU - Wanda: SE, meadow near Alhambra Rd.; House: Ruderal; EUON - Open grassland Habitat Type: Ruderal/Grassland Growth Form: Herb Flowering Period: March-July Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Tragopogon porrifolius</i> Common Name: Salsify Location: EUON - 1 plant directly in front of parking area Habitat Type: Orchard Growth Form: Herb Flowering Period: June-July Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Uropappus lindleyi</i> Common Name: Silver puffs Location: JOMU - Wanda: NW, below wildflower trail near <i>Eriophyllum</i> and <i>Allium</i> Habitat Type: Woodland Growth Form: Herb Flowering Period: April-May Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Wyethia angustifolia</i> Common Name: Narrowleaf mule ears Location: JOMU - Wanda: NW, in shaded woodland Habitat Type: Woodland Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>

<p>Family: Asteraceae Scientific Name: <i>Wyethia helenoides</i> Common Name: Grey mule ears Location: JOMU - Wanda: All quadrants, sunny hillsides</p> <p>Habitat Type: Grassland/Woodland Growth Form: Herb Flowering Period: Feb-May Status: none Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Xanthium spinosum</i> Common Name: Spiny cocklebur Location: JOMU - Wanda: SE, Strain ranch area EUON - North disked field Habitat Type: Orchard/Ruderal Growth Form: Herb Flowering Period: July-Sep Status: CalEPPC-? Notes: none</p>
<p>Family: Asteraceae Scientific Name: <i>Xanthium strumarium</i> Common Name: Cocklebur Location: JOMU - Wanda: NE, along road under trestle</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: July-Sep Status: none Notes: Possibly not native</p>
<p>Family: Berberidaceae Scientific Name: <i>Berberis aquifolium</i> Common Name: Oregon grape Location: JOMU - House: Around Adobe</p> <p>Habitat Type: Garden Growth Form: Shrub Flowering Period: March-May Status: none Notes: Planted, not historic</p>

<p>Family: Betulaceae Scientific Name: <i>Betula nigra</i> Common Name: River birch Location: JOMU - House: Southwest corner of site</p> <p>Habitat Type: Garden Growth Form: Tree Flowering Period: N/A Status: none Notes: Single tree, gift from local nursery in 1990.</p>
<p>Family: Betulaceae Scientific Name: <i>Corylus cornuta var. californica</i> Common Name: California hazelnut Location: JOMU - Grave: Riparian</p> <p>Habitat Type: Riparian Growth Form: Shrub-Tree Flowering Period: N/A Status: none Notes: none</p>
<p>Family: Bignoniaceae Scientific Name: <i>Campsis radicans</i> Common Name: Common trumpetvine Location: JOMU - House: One by NE pillar of Ramada behind Adobe</p> <p>Habitat Type: Garden Growth Form: Vine Flowering Period: August-September Status: none Notes: Planted, not historic</p>
<p>Family: Bignoniaceae Scientific Name: <i>Tecoma capensis</i> Common Name: Cape honeysuckle Location: JOMU - House: Victorian garden</p> <p>Habitat Type: Garden Growth Form: Vine Flowering Period: October-Winter Status: none Notes: Planted, not historic</p>

<p>Family: Blechnaceae Scientific Name: <i>Woodwardia fimbriata</i> Common Name: Giant chain fern Location: EUON - East forest and slide area</p> <p>Habitat Type: Forest Growth Form: Fern Flowering Period: N/A Status: none Notes: none</p>
<p>Family: Boraginaceae Scientific Name: <i>Amsinckia menziesii</i> var. <i>intermedia</i> Common Name: Common fiddleneck Location: JOMU - Wanda: Ubiquitous in grassland and woodland, near roads; EUON - Sunny areas, open grassland Habitat Type: Grassland/Woodland Growth Form: Herb Flowering Period: Feb-April Status: none Notes: none</p>
<p>Family: Boraginaceae Scientific Name: <i>Cynoglossum grande</i> Common Name: Grand hound's tongue Location: JOMU - Wanda: NW-NE-SE, few in shaded woodland/forest; EUON - East slide area and north forest, few plants Habitat Type: Forest/Woodland Growth Form: Herb Flowering Period: Feb-April Status: none Notes: none</p>
<p>Family: Boraginaceae Scientific Name: <i>Myosotis latifolia</i> Common Name: Forget-me-not Location: EUON - East slide area</p> <p>Habitat Type: Grassland/Woodland Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>

<p>Family: Brassicaceae Scientific Name: <i>Brassica nigra</i> Common Name: Black mustard Location: JOMU - Wanda: Ubiquitous in grassland; House: Few plants along edges; POCH - Ubiquitous, ruderal Habitat Type: Grassland/Ruderal Growth Form: Herb Flowering Period: March-May Status: CalEPPC-B Notes: none</p>
<p>Family: Brassicaceae Scientific Name: <i>Brassica rapa</i> Common Name: Field mustard Location: JOMU - Wanda: Ubiquitous in grassland; House: Fields; Grave: Orchards; EUON - Ubiquitous in grassland and disked areas Habitat Type: Grassland/Ruderal Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Brassicaceae Scientific Name: <i>Capsella bursa-pastoris</i> Common Name: Shepherd's purse Location: JOMU - Wanda: All quadrants ruderal; House: Ruderal, ubiquitous; POCH - Ubiquitous, ruderal Habitat Type: Ruderal Growth Form: Herb Flowering Period: Feb-April Status: none Notes: none</p>
<p>Family: Brassicaceae Scientific Name: <i>Cardamine californica</i> Common Name: Milk maids Location: EUON - Shaded woodland, east side Habitat Type: Woodland Growth Form: Herb Flowering Period: Feb-April Status: none Notes: none</p>

<p>Family: Brassicaceae Scientific Name: <i>Cardamine oligosperma</i> Common Name: Bitter cress Location: JOMU - Wanda: All quadrants, woodland and ruderal; House: Orchard; Grave: Ruderal; EUON - Ruderal, disked areas Habitat Type: Woodland/Ruderal/Orchard Growth Form: Herb Flowering Period: Feb-April Status: CalEPPC-B Notes: none</p>
<p>Family: Brassicaceae Scientific Name: <i>Hirschfeldia incana</i> Common Name: Hoary mustard Location: JOMU - Wanda: SE, in field near stables; House: Field edges; EUON - NW, near <i>Eucalyptus</i>; POCH - Ruderal Habitat Type: Ruderal/Grassland Growth Form: Herb Flowering Period: May-June Status: CalEPPC-N Notes: none</p>
<p>Family: Brassicaceae Scientific Name: <i>Lepidium latifolium</i> Common Name: Perennial pepperweed Location: JOMU - Wanda: SE, small patch in field near stables; POCH - Ubiquitous, ruderal Habitat Type: Grassland/Ruderal Growth Form: Herb Flowering Period: May-July Status: CalEPPC-A1; NOX-B Notes: Could be easily extirpated due to small population size</p>
<p>Family: Brassicaceae Scientific Name: <i>Lepidium nitidum</i> var. <i>nitidum</i> Common Name: Poorman's peppergrass Location: JOMU - Wanda: All quadrants, ruderal; EUON - Ruderal and disked areas Habitat Type: Ruderal Growth Form: Herb Flowering Period: Feb-April Status: none Notes: none</p>

<p>Family: Brassicaceae Scientific Name: <i>Raphanus sativus</i> Common Name: Wild radish Location: JOMU - Wanda: All quadrants in ruderal areas and grassland; House: Few plants along edges; EUON - NE field; POCH - Ruderal Habitat Type: Grassland/Ruderal Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Brassicaceae Scientific Name: <i>Rorippa nasturtium-aquaticum</i> Common Name: Watercress Location: JOMU - House: In stream at south end of property; Grave: In creek Habitat Type: Riparian Growth Form: Aquatic Herb Flowering Period: May-July Status: none Notes: Also just off property at Eugene O'Neill in pond outflow</p>
<p>Family: Brassicaceae Scientific Name: <i>Sinapis arvensis</i> Common Name: Charlock Location: JOMU - Wanda: Ubiquitous in grassland; EUON - NE, edge of field/orchard Habitat Type: Grassland/Ruderal Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Brassicaceae Scientific Name: <i>Sisymbrium officinale</i> Common Name: Hedge mustard Location: JOMU - Wanda: NE-NW (possibly in south as well) woodland edges; EUON - NW, at Blemie's grave Habitat Type: Woodland/Ruderal Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>

<p>Family: Brassicaceae Scientific Name: <i>Thysanocarpus curvipes</i> Common Name: Fringepod Location: JOMU - Wanda: NW-NE, few on open hillsides</p> <p>Habitat Type: Woodland/Chaparral Growth Form: Herb Flowering Period: Feb-April Status: none Notes: none</p>
<p>Family: Campanulaceae Scientific Name: <i>Campanula medium</i> Common Name: Canterbury bells Location: JOMU - House: North side of visitor center</p> <p>Habitat Type: Garden Growth Form: Herb Flowering Period: winter Status: none Notes: planted</p>
<p>Family: Caprifoliaceae Scientific Name: <i>Lonicera hispidula</i> var. <i>vacillans</i> Common Name: California honeysuckle Location: JOMU - Wanda: All quadrants, in shaded forest; EUON - Wooded areas, east side</p> <p>Habitat Type: Forest Growth Form: Vine Flowering Period: May-August Status: none Notes: none</p>
<p>Family: Caprifoliaceae Scientific Name: <i>Sambucus mexicana</i> Common Name: Blue Elderberry Location: JOMU - Wanda: NW, along creeks; House: Riparian, fence lines; Grave: Riparian; EUON - East slide area and next to park headquarters</p> <p>Habitat Type: Forest/Riparian Growth Form: Shrub Flowering Period: May-June Status: none Notes: none</p>

<p>Family: Caprifoliaceae Scientific Name: <i>Symphoricarpos albus</i> var. <i>laevigatus</i> Common Name: Snowberry Location: JOMU - Wanda: All quadrants, in shaded forest; House: Along creek; Grave: Riparian; EUON - Wooded areas, east side Habitat Type: Forest Growth Form: Shrub Flowering Period: May-August Status: none Notes: none</p>
<p>Family: Caryophyllaceae Scientific Name: <i>Dianthus deltoides</i> Common Name: Maiden pink Location: JOMU - House: Muir house and adobe Habitat Type: Ruderal Growth Form: Herb Flowering Period: June-August Status: none Notes: Planted, not historic</p>
<p>Family: Caryophyllaceae Scientific Name: <i>Polycarpon tetraphyllum</i> Common Name: Four-leaved all-seed Location: EUON - Ruderal, in front of Tao House; POCH - Ruderal Habitat Type: Ruderal Growth Form: Herb Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Caryophyllaceae Scientific Name: <i>Silene gallica</i> Common Name: Windmill pink, Common catchfly Location: JOMU - Wanda: NW-NE, sunny hillsides Habitat Type: Woodland/Chaparral Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>

<p>Family: Caryophyllaceae Scientific Name: <i>Spergula arvensis</i> Common Name: Spurrey Location: EUON - Disked areas</p> <p>Habitat Type: Ruderal/Orchard Growth Form: Herb Flowering Period: Feb-April Status: none Notes: none</p>
<p>Family: Caryophyllaceae Scientific Name: <i>Spergularia rubra</i> Common Name: Sand spurrey Location: JOMU - Wanda: NE, roadside at property edge (probably elsewhere too); EUON - Ruderal, disked areas, and roads</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Caryophyllaceae Scientific Name: <i>Stellaria media</i> Common Name: Chickweed Location: JOMU - Wanda: Ubiquitous, ruderal; House: In orchards and ruderal; Grave: Orchard; EUON - Orchard, disked areas, ruderal</p> <p>Habitat Type: Ruderal/Orchard Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Celastraceae Scientific Name: <i>Euonymus japonicus</i> Common Name: Japanese spindle tree Location: JOMU - House: Bush in front of Muir house, below path</p> <p>Habitat Type: Garden Growth Form: Shrub Flowering Period: spring Status: none Notes: planted, not historic</p>

<p>Family: Chenopodiaceae Scientific Name: <i>Atriplex triangularis</i> Common Name: Spearscale Location: POCH - Ruderal, just above tidal zone</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: August-September Status: none Notes: none</p>
<p>Family: Chenopodiaceae Scientific Name: <i>Chenopodium multifidum</i> Common Name: Cutleaved goosefoot Location: JOMU - Wanda: Ruderal, on roadside near Maintenance, between sidewalk and fence</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: August-September Status: none Notes: none</p>
<p>Family: Chenopodiaceae Scientific Name: <i>Salicornia virginica</i> Common Name: Pickleweed Location: POCH - Brackish marsh</p> <p>Habitat Type: Brackish marsh Growth Form: Succulent Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Chenopodiaceae Scientific Name: <i>Salsola soda</i> Common Name: Russian thistle Location: POCH - Ruderal</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: July-Oct Status: CalEPPC-N Notes: none</p>

<p>Family: Convolvulaceae Scientific Name: <i>Calystegia subacaulis</i> ssp. <i>subacaulis</i> Common Name: Hill morning-glory Location: JOMU - Wanda: NW-SW, grassland and along roads</p> <p>Habitat Type: Grassland/Ruderal Growth Form: Vine Flowering Period: July-August Status: none Notes: none</p>
<p>Family: Convolvulaceae Scientific Name: <i>Convolvulus arvensis</i> Common Name: Bindweed Location: JOMU - Wanda: Ubiquitous, grassland; House: Orchard; Grave: Orchard; EUON - Orchards, disked areas, ruderal Habitat Type: Grassland/Orchard/Ruderal Growth Form: Vine Flowering Period: April-July Status: CalEPPC-? Notes: none</p>
<p>Family: Convolvulaceae Scientific Name: <i>Convolvulus cneorum</i> Common Name: Bush morning glory Location: JOMU - House: Adobe area</p> <p>Habitat Type: Garden Growth Form: Herb Flowering Period: May-September Status: none Notes: planted and maintained</p>
<p>Family: Cornaceae Scientific Name: <i>Aucuba japonica</i> Common Name: Variegated gold dust plant, Japanese aucuba Location: JOMU - House: North side of Visitor Center</p> <p>Habitat Type: Garden Growth Form: Herb Flowering Period: March-April Status: none Notes: Planted</p>

<p>Family: Crassulaceae Scientific Name: <i>Sedum telphium</i> "Autumn Joy" Common Name: Stonecrop Location: JOMU - House: Garden right by conservatory</p> <p>Habitat Type: Garden Growth Form: Herb Flowering Period: March-April Status: none Notes: Planted, not historic</p>
<p>Family: Cucurbitaceae Scientific Name: <i>Marah fabaceus</i> Common Name: California manroot Location: JOMU - Wanda: All quadrants in partial to shaded areas; House: Along creek; EUON - Forest, east side and north side</p> <p>Habitat Type: Forest/Riparian Growth Form: Vine Flowering Period: N/A Status: none Notes: none</p>
<p>Family: Cupressaceae Scientific Name: <i>Calocedrus decurrens</i> Common Name: Incense cedar Location: JOMU - House: On slope west and north of Muir house; Grave: relict ornamental tree next to grave</p> <p>Habitat Type: Garden/Orchard Growth Form: Tree Flowering Period: N/A Status: none Notes: Historic tree planted in Muir's time; Native to California, not native to East Bay</p>
<p>Family: Cupressaceae Scientific Name: <i>Cupressocyparis leylandii</i> Common Name: Leyland cypress Location: JOMU - House: Planted along southeast fence</p> <p>Habitat Type: Garden Growth Form: Tree Flowering Period: N/A Status: none Notes: planted</p>

<p>Family: Cupressaceae Scientific Name: <i>Cupressus funebris</i> Common Name: Mourning cypress Location: JOMU - House: East of Muir house along trail</p> <p>Habitat Type: Garden Growth Form: Tree Flowering Period: N/A Status: none Notes: Planted, possibly historic</p>
<p>Family: Cupressaceae Scientific Name: <i>Cupressus sp.</i> Common Name: Cypress Location: JOMU - Grave, relict ornamental tree</p> <p>Habitat Type: Orchard Growth Form: Tree Flowering Period: N/A Status: none Notes: Potentially a CA native sp., not identified</p>
<p>Family: Cupressaceae Scientific Name: <i>Juniperus sp.</i> Common Name: Juniper Location: JOMU - Grave, relict ornamental tree</p> <p>Habitat Type: Orchard Growth Form: Tree Flowering Period: N/A Status: none Notes: Potentially a CA native sp., not identified</p>
<p>Family: Cupressaceae Scientific Name: <i>Thuja occidentalis</i> Common Name: American arborvitae Location: JOMU - House: Along road between Muir house and carriage house, near tamarisks</p> <p>Habitat Type: Garden Growth Form: Tree Flowering Period: N/A Status: none Notes: Planted, possibly historic</p>

<p>Family: Cyperaceae Scientific Name: <i>Carex aquatilis</i> var. <i>dives</i> Common Name: Sitka sedge Location: JOMU - House: Riparian, just above bridge</p> <p>Habitat Type: Riparian Growth Form: Herb Flowering Period: March-May Status: Ua2 - More than 2 known localities in East Bay, but seriously threatened Notes: none</p>
<p>Family: Cyperaceae Scientific Name: <i>Cyperus eragrostis</i> Common Name: Tall cyperus Location: JOMU - House: Riparian</p> <p>Habitat Type: Riparian Growth Form: Herb Flowering Period: June-August Status: none Notes: none</p>
<p>Family: Cyperaceae Scientific Name: <i>Scirpus americanus</i> Common Name: Three square Location: POCH - Brackish marsh</p> <p>Habitat Type: Brackish marsh Growth Form: Herb Flowering Period: May-June Status: none Notes: none</p>
<p>Family: Cyperaceae Scientific Name: <i>Scirpus californicus</i> Common Name: California bulrush Location: POCH - Low brackish marsh</p> <p>Habitat Type: Brackish marsh Growth Form: Herb Flowering Period: May-July Status: none Notes: none</p>

<p>Family: Cyperaceae Scientific Name: <i>Scirpus cernuus</i> Common Name: Low clubrush Location: POCH - Brackish marsh</p> <p>Habitat Type: Brackish Marsh Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Cyperaceae Scientific Name: <i>Scirpus maritimus</i> Common Name: Prairie rush Location: JOMU - House: Riparian, near culvert</p> <p>Habitat Type: Riparian Growth Form: Herb Flowering Period: May-June Status: Lake's Watch List Notes: none</p>
<p>Family: Dennstaedtiaceae Scientific Name: <i>Pteridium aquilinum</i> Common Name: Bracken fern Location: JOMU - House: Behind Visitor center</p> <p>Habitat Type: Garden Growth Form: Fern Flowering Period: N/A Status: none Notes: Planted, maybe historic</p>
<p>Family: Dryopteridaceae Scientific Name: <i>Dryopteris arguta</i> Common Name: Wood fern Location: JOMU - Wanda: All quadrants in shaded forest; EUON - Common in shaded forest</p> <p>Habitat Type: Forest Growth Form: Fern Flowering Period: N/A Status: none Notes: none</p>

<p>Family: Dryopteridaceae Scientific Name: <i>Polystichum munitum</i> Common Name: Western sword fern Location: JOMU - Grave: riparian; EUON - East forest, riparian Habitat Type: Riparian/Garden Growth Form: Fern Flowering Period: N/A Status: none Notes: none</p>
<p>Family: Ebenaceae Scientific Name: <i>Diospyros kaki</i> Common Name: Persimmon Location: JOMU - Wanda: Remnant planted tree at main parking area Habitat Type: Woodland Growth Form: Tree Flowering Period: March-April Status: none Notes: none</p>
<p>Family: Equisetaceae Scientific Name: <i>Equisetum telmateia</i> ssp. <i>braunii</i> Common Name: Giant horsetail Location: EUON - East side slide/seep area Habitat Type: Forest/Riparian Growth Form: Fern Flowering Period: N/A Status: Lake's Watch List Notes: none</p>
<p>Family: Ericaceae Scientific Name: <i>Arbutus menziesii</i> Common Name: Madrone Location: EUON - East side, above slide, few scattered trees; Habitat Type: Forest Growth Form: Tree Flowering Period: Feb-April Status: Lake's Watch List Notes: none</p>

Family: Ericaceae
 Scientific Name: *Arbutus unedo*
 Common Name: Strawberry tree
 Location: **JOMU** - House: At southeast corner of the Muir house, outside potting shed

Habitat Type: Garden
 Growth Form: Tree
 Flowering Period: Spring
 Status: none
 Notes: Historic planting

Family: Ericaceae
 Scientific Name: *Arctostaphylos manzanita*
 Common Name: Manzanita
 Location: **JOMU** - House: One in native plant garden west of Franklin creek, and Entrance to Visitor Center

Habitat Type: Garden
 Growth Form: Shrub
 Flowering Period: Spring
 Status: none
 Notes: Planted

Family: Ericaceae
 Scientific Name: *Gaultheria shallon*
 Common Name: Salal
 Location: **JOMU** - House: Garden in Adobe area

Habitat Type: Garden
 Growth Form: Shrub
 Flowering Period: March-June
 Status: none
 Notes: Planted, not historic

Family: Euphorbiaceae
 Scientific Name: *Chamaesyce maculata*
 Common Name: Spotted spurge
 Location: **JOMU** - Wanda: NW, along road and in disturbed field;
 EUON - Disked orchard; **POCH** - Ruderal
 Habitat Type: Ruderal
 Growth Form: Herb
 Flowering Period: June-Aug
 Status: none
 Notes: none

<p>Family: Euphorbiaceae Scientific Name: <i>Eremocarpus setigerus</i> Common Name: Doveweed, Turkey mullein Location: JOMU - Wanda: NW, side of road; EUON - Ruderal near barn and water main Habitat Type: Ruderal Growth Form: Herb Flowering Period: July-Sept Status: none Notes: none</p>
<p>Family: Euphorbiaceae Scientific Name: <i>Euphorbia lathyris</i> Common Name: Caper spurge Location: JOMU - Wanda: Next to maintenance building Habitat Type: Ruderal Growth Form: Herb Flowering Period: April-June Status: CalEPPC-N Notes: Horticultural relict</p>
<p>Family: Euphorbiaceae Scientific Name: <i>Euphorbia oblongata</i> Common Name: Oblong spurge Location: JOMU - Wanda: NW, SE, several patches in ruderal areas. House: Dense patches along Riparian and fence lines. Grave: Edge of Riparian Habitat Type: Ruderal Growth Form: Herb Flowering Period: April-June Status: NOX-B Notes: none</p>
<p>Family: Euphorbiaceae Scientific Name: <i>Euphorbia peplus</i> Common Name: Petty spurge Location: JOMU - House: in garden areas around buildings. EUON - Garden areas around Tao House Habitat Type: Ruderal Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>

<p>Family: Euphorbiaceae Scientific Name: <i>Euphorbia spathulata</i> Common Name: Spatulate leafed spurge Location: JOMU - Wanda: NW-NE in oak woodland; House: Near creek</p> <p>Habitat Type: Woodland Growth Form: Herb Flowering Period: March-April Status: none Notes: none</p>
<p>Family: Fabaceae Scientific Name: <i>Acacia longifolia</i> Common Name: Sydney golden wattle, Blackwood acacia Location: JOMU - House: South or east of house along fence</p> <p>Habitat Type: Garden Growth Form: Tree/Shrub Flowering Period: Late Winter-Early spring Status: none Notes: Historic planting</p>
<p>Family: Fabaceae Scientific Name: <i>Ceratonia siliqua</i> Common Name: Carob, St. John's bread Location: JOMU - House: Behind Muir house near south fence and Northeast of carriage house</p> <p>Habitat Type: Orchard Growth Form: Tree Flowering Period: March-May Status: Notes: Planted Historic trees</p>
<p>Family: Fabaceae Scientific Name: <i>Genista monspessulana</i> Common Name: French broom Location: JOMU - Wanda: NE at edge of property, between tunnel and road;</p> <p>Habitat Type: Ruderal Growth Form: Shrub Flowering Period: March-May Status: CalEPPC-A1; NOX-C Notes: Small patch that could be easily removed by one person and a weed-wrench</p>

<p>Family: Fabaceae Scientific Name: <i>Gleditsia triacanthos</i> Common Name: Honey locust Location: JOMU - House: North of Muir house along road to carriage house, near tamarisks</p> <p>Habitat Type: Garden Growth Form: Tree Flowering Period: N/A Status: none Notes: Planted, not historic</p>
<p>Family: Fabaceae Scientific Name: <i>Lathyrus latifolius</i> Common Name: Everlasting pea Location: JOMU - Wanda: SW, above road</p> <p>Habitat Type: Woodland/Ruderal Growth Form: Herb Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Fabaceae Scientific Name: <i>Lathyrus vestitus</i> var. vestitus Common Name: Hillside pea Location: JOMU - Wanda: All quadrants, patches in woodland EUON - Orchards</p> <p>Habitat Type: Woodland Growth Form: Herb Flowering Period: March-April Status: none Notes: none</p>
<p>Family: Fabaceae Scientific Name: <i>Lotus corniculatus</i> Common Name: Bird's foot lotus Location: JOMU - Wanda: NW, side of road POCH - side of road</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: June-July Status: none Notes: none</p>

<p>Family: Fabaceae Scientific Name: <i>Lotus humistratus</i> Common Name: Hill lotus Location: JOMU - Wanda: All quadrants, open hillsides Habitat Type: Ruderal/Grassland Growth Form: Herb Flowering Period: March-April Status: none Notes: Nearly identical to <i>L. wrangelianus</i>. There is no reasonable distinction between these two species - future study will most likely unite these two under one name.</p>
<p>Family: Fabaceae Scientific Name: <i>Lotus purshianus</i> var. <i>purshianus</i> Common Name: Spanish lotus Location: JOMU - Wanda: NE, along and below tracks Habitat Type: Ruderal Growth Form: Herb Flowering Period: June-July Status: none Notes: none</p>
<p>Family: Fabaceae Scientific Name: <i>Lotus scoparius</i> var. <i>scoparius</i> Common Name: Deer weed Location: JOMU - Wanda: NW, NE, in chaparral Habitat Type: Chaparral Growth Form: sub-shrub Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Fabaceae Scientific Name: <i>Lotus wrangelianus</i> Common Name: Common trefoil Location: JOMU - Wanda: SE, along top fire road Habitat Type: Ruderal Growth Form: Herb Flowering Period: April-May Status: none Notes: Nearly identical to <i>L. humistratus</i></p>

<p>Family: Fabaceae Scientific Name: <i>Lupinus bicolor</i> Common Name: Miniature lupine Location: JOMU - Wanda: All quadrants, open areas Habitat Type: Grassland Growth Form: Herb Flowering Period: March-May Status: none Notes: Nearly identical to <i>L. nanus</i>. There is no reasonable distinction between these two species - future study will most likely unite these two under one name</p>
<p>Family: Fabaceae Scientific Name: <i>Lupinus formosus</i> var. <i>formosus</i> Common Name: Summer lupine Location: JOMU - Wanda: NW-NE; N. of fire road, on top of Mt. Wanda Habitat Type: Grassland Growth Form: Herb/Sub-shrub Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Fabaceae Scientific Name: <i>Lupinus microcarpus</i> var. <i>microcarpus</i> Common Name: Chick lupine, Valley lupine Location: JOMU - Wanda: SE; along top fire road Habitat Type: Grassland/Ruderal Growth Form: Sub-shrub Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Fabaceae Scientific Name: <i>Lupinus nanus</i> Common Name: Sky lupine, Douglas's lupine Location: JOMU - Wanda: All quadrants, open areas EUON - Open grassland and disked areas Habitat Type: Grassland/Ruderal Growth Form: Herb Flowering Period: March-May Status: none Notes: Nearly identical to <i>L. bicolor</i></p>

<p>Family: Fabaceae Scientific Name: <i>Lupinus succulentus</i> Common Name: Arroyo lupine Location: JOMU - Wanda: NW-NE; sunny hillsides</p> <p>Habitat Type: Grassland/Ruderal Growth Form: sub-shrub Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Fabaceae Scientific Name: <i>Medicago arabica</i> Common Name: Spotted bur clover Location: JOMU - Wanda: NW; along roads EUON - Disked areas</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: April-May Status: none Notes: none</p>
<p>Family: Fabaceae Scientific Name: <i>Medicago polymorpha</i> Common Name: California bur clover Location: JOMU - Wanda: Ubiquitous; House: Fields, open areas; Grave: Orchard; EUON - Ubiquitous; POCH - Ruderal, mown area</p> <p>Habitat Type: Grassland/Orchard/Ruderal Growth Form: Herb Flowering Period: March-May Status: CalEPPC-? Notes: none</p>
<p>Family: Fabaceae Scientific Name: <i>Melilotus alba</i> Common Name: White sweetclover Location: POCH - Ruderal</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: May-July Status: none Notes: none</p>

<p>Family: Fabaceae Scientific Name: <i>Melilotus indica</i> Common Name: Sourclover Location: JOMU - Wanda: NE corner of property, likely elsewhere also POCH - Ruderal, in high grass Habitat Type: Ruderal Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Fabaceae Scientific Name: <i>Prosopis glandulosa</i> var. <i>torreyana</i> Common Name: Honey mesquite Location: JOMU - House: One tree on path between Muir house and carriage house Habitat Type: Garden Growth Form: Tree Flowering Period: n/a Status: none Notes: Planted, historic, supposedly brought by Strenzel from Texas</p>
<p>Family: Fabaceae Scientific Name: <i>Robinia pseudoacacia</i> Common Name: Black locust Location: JOMU - Wanda: NE, behind maintenance building; House: Along road east of plum orchard, west of Muir house; Grave: 1 tree near grave Habitat Type: Ruderal/Orchard Growth Form: Tree Flowering Period: March-May Status: CalEPPC-B Notes: Planted, does not appear to be spreading on Mt. Wanda</p>
<p>Family: Fabaceae Scientific Name: <i>Rupertia physodes</i> Common Name: California tea Location: JOMU - Wanda: NE, shady slope above fire road; hill next to train tunnel Habitat Type: Woodland Growth Form: Herb Flowering Period: N/A Status: Lake's Watch List Notes: none</p>

<p>Family: Fabaceae Scientific Name: <i>Trifolium bifidum</i> var. <i>decipiens</i> Common Name: Deceiving clover Location: JOMU - Wanda: NE-SE, along roads and deer trails</p> <p>Habitat Type: Ruderal/Woodland Growth Form: Herb Flowering Period: April-May Status: none Notes: none</p>
<p>Family: Fabaceae Scientific Name: <i>Trifolium dubium</i> Common Name: Little hop clover, Shamrock Location: JOMU - Wanda: Ubiquitous on roads; EUON - Dirt roads through orchards</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Fabaceae Scientific Name: <i>Trifolium glomeratum</i> Common Name: Clustered clover Location: EUON - Dirt road near barn</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Fabaceae Scientific Name: <i>Trifolium gracilentum</i> var. <i>gracilentum</i> Common Name: Pinpoint clover Location: JOMU - Wanda: NW-NE, Hillside below wildflower trail, and near train tunnel</p> <p>Habitat Type: Woodland Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>

<p>Family: Fabaceae Scientific Name: <i>Trifolium hirtum</i> Common Name: Rose clover Location: JOMU - Wanda: Ubiquitous, hillsides along roads, grassland; EUON - Ubiquitous, grassland Habitat Type: Grassland/Ruderal Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Fabaceae Scientific Name: <i>Trifolium incarnatum</i> Common Name: Crimson clover Location: JOMU - Wanda: NE, open field near road, also along train tracks; House: Orchards, used as a cover-crop Habitat Type: Ruderal/Orchard Growth Form: Herb Flowering Period: Feb-May Status: none Notes: Use as a cover-crop seems to inhibit weed growth when not disked</p>
<p>Family: Fabaceae Scientific Name: <i>Trifolium microcephalum</i> Common Name: Smallhead clover Location: JOMU - Wanda: NE, above train tunnel and nearby Habitat Type: Woodland/Chaparral Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Fabaceae Scientific Name: <i>Trifolium microdon</i> Common Name: Valparaiso clover, Thimble clover Location: JOMU - Wanda: NE, along main road near <i>Madia gracilis</i> patch Habitat Type: Ruderal Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>

<p>Family: Fabaceae Scientific Name: <i>Trifolium oliganthum</i> Common Name: Fewflower clover Location: JOMU - Wanda: NE, along main road near <i>Madia gracilis</i> patch</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Fabaceae Scientific Name: <i>Trifolium subterraneum</i> Common Name: Subterranean clover Location: JOMU - Wanda: NW, along fire road near cement trough EUON - In drainage next to parking area</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Fabaceae Scientific Name: <i>Trifolium wildenovii</i> Common Name: Tomcat clover Location: JOMU - Wanda: NE-NW (possibly in south as well); common woodland clover</p> <p>Habitat Type: Woodland Growth Form: Herb Flowering Period: March-June Status: none Notes: none</p>
<p>Family: Fabaceae Scientific Name: <i>Vicia americana</i> var. <i>americana</i> Common Name: American vetch Location: JOMU - Wanda: SE, woodland</p> <p>Habitat Type: Woodland Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>

<p>Family: Fabaceae Scientific Name: <i>Vicia benghalensis</i> Common Name: Purple vetch Location: JOMU - Wanda: NE-SE (possibly elsewhere too) EUON - Orchards and grassland Habitat Type: Grassland/Orchard Growth Form: Herb Flowering Period: April-July Status: none Notes: none</p>
<p>Family: Fabaceae Scientific Name: <i>Vicia sativa</i> ssp. <i>nigra</i> Common Name: Spring vetch Location: JOMU - Wanda: Ubiquitous; House: Orchards and edge areas; EUON - Ubiquitous in grassland and orchards Habitat Type: Grassland/Woodland/Orchard/Ruderal Growth Form: Herb Flowering Period: Feb-May Status: none Notes: <i>Vicia sativa</i> ssp. <i>sativa</i> may be present as well</p>
<p>Family: Fabaceae Scientific Name: <i>Wisteria sinensis</i> Common Name: Chinese wisteria Location: JOMU - House: At rear of Muir house, at rear of Adobe Habitat Type: Garden Growth Form: Vine Flowering Period: April-May Status: none Notes: planted, not historic</p>
<p>Family: Fagaceae Scientific Name: <i>Quercus agrifolia</i> Common Name: Coast live oak Location: JOMU - Wanda: Ubiquitous; House: Edges, fence line; Grave: Edge of orchard and near grave plot; EUON - East and north forest Habitat Type: Forest/Woodland Growth Form: Tree Flowering Period: N/A Status: none Notes: none</p>

<p>Family: Fagaceae Scientific Name: <i>Quercus douglasii</i> Common Name: Blue oak Location: JOMU - Wanda: Ubiquitous in woodland</p> <p>Habitat Type: Woodland Growth Form: Tree Flowering Period: N/A Status: none Notes: none</p>
<p>Family: Fagaceae Scientific Name: <i>Quercus garryana</i> Common Name: Oregon white oak Location: JOMU - House: West of Muir house</p> <p>Habitat Type: Garden Growth Form: Tree Flowering Period: N/A Status: none Notes: Planted, historic</p>
<p>Family: Fagaceae Scientific Name: <i>Quercus kelloggii</i> Common Name: Black oak Location: JOMU - Wanda: Ubiquitous in woodland and forest; EUON - East and north forest</p> <p>Habitat Type: Woodland/Forest Growth Form: Tree Flowering Period: N/A Status: none Notes: none</p>
<p>Family: Fagaceae Scientific Name: <i>Quercus lobata</i> Common Name: Valley oak Location: JOMU - Wanda: Ubiquitous in woodland/forest; House: Edges and fence line; Grave: Large single tree on west edge of site; EUON - East and north forest</p> <p>Habitat Type: Woodland/Forest Growth Form: Tree Flowering Period: N/A Status: none Notes: none</p>

<p>Family: Fagaceae Scientific Name: <i>Quercus suber</i> Common Name: Cork oak Location: JOMU - Wanda: NE, several on north-facing hill above road; House: Near southwest corner of parking lot, just inside fence at corner Habitat Type: Ruderal/Garden Growth Form: Tree Flowering Period: N/A Status: none Notes: Planted, not historic, has potential to spread up into Blue oak woodland</p>
<p>Family: Garryaceae Scientific Name: <i>Garrya elliptica</i> Common Name: Coast Silk Tassel Location: JOMU - House: In native plant garden west of Franklin creek Habitat Type: Garden Growth Form: Shrub Flowering Period: December-February Status: none Notes: Planted, not historic</p>
<p>Family: Geraniaceae Scientific Name: <i>Erodium botrys</i> Common Name: Long-beaked stork's bill Location: JOMU - Wanda: Ubiquitous; House: Ubiquitous; EUON - Ruderal, disked areas Habitat Type: All Growth Form: Herb Flowering Period: Feb-June Status: none Notes: none</p>
<p>Family: Geraniaceae Scientific Name: <i>Erodium cicutarium</i> Common Name: Red-stemmed stork's bill Location: JOMU - Wanda: Ubiquitous; House: Ubiquitous; EUON - Ruderal, disked areas Habitat Type: All Growth Form: Herb Flowering Period: Feb-June Status: none Notes: none</p>

<p>Family: Geraniaceae Scientific Name: <i>Erodium moschatum</i> Common Name: Whitestem filaree Location: JOMU - Wanda: Ubiquitous; House: Ubiquitous; Grave: Orchard; EUON - Ruderal, disked areas Habitat Type: All Growth Form: Herb Flowering Period: Feb-June Status: none Notes: none</p>
<p>Family: Geraniaceae Scientific Name: <i>Geranium dissectum</i> Common Name: Cut-leaved geranium Location: JOMU - Wanda: Ubiquitous; House: Ubiquitous; Grave: Orchard; EUON - Ruderal, disked areas Habitat Type: All Growth Form: Herb Flowering Period: Feb-June Status: none Notes: none</p>
<p>Family: Geraniaceae Scientific Name: <i>Geranium molle</i> Common Name: Crane's bill geranium Location: JOMU - Wanda: Ubiquitous; House: Ubiquitous; Habitat Type: All Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Geraniaceae Scientific Name: <i>Pelargonium hortorum</i> Common Name: Common geranium Location: JOMU - House: Around Adobe Habitat Type: Garden Growth Form: Herb Flowering Period: Spring-Fall Status: none Notes: Planted, Historic</p>

<p>Family: Grossulariaceae Scientific Name: <i>Ribes californicum</i> var. <i>californicum</i> Common Name: Hillside gooseberry Location: JOMU - Wanda: NW, in shaded forest near chaparral and near tracks</p> <p>Habitat Type: Forest Growth Form: Shrub Flowering Period: Jan-March Status: Lake's Watch List Notes: none</p>
<p>Family: Grossulariaceae Scientific Name: <i>Ribes speciosum</i> Common Name: Fuchsia flowered gooseberry Location: JOMU - House: In native plant garden west of Franklin creek</p> <p>Habitat Type: Garden Growth Form: Shrub Flowering Period: Jan-May Status: Ua1 Notes: Planted, California native, but not locally</p>
<p>Family: Hamamelidaceae Scientific Name: <i>Liquidambar styraciflua</i> Common Name: Sweet gum Location: JOMU - House: On Street at Visitor center; Grave: Relict ornamental tree Habitat Type: Orchard/Garden Growth Form: Tree Flowering Period: N/A Status: none Notes: Planted, not historic</p>
<p>Family: Hippocastanaceae Scientific Name: <i>Aesculus californica</i> Common Name: California buckeye Location: JOMU - Wanda: Ubiquitous in woodland and forest; House: Riparian; Grave: Riparian; EUON - East and north forest Habitat Type: Woodland/Forest/Riparian Growth Form: Tree Flowering Period: May-June Status: none Notes: none</p>

<p>Family: Hydrophyllaceae Scientific Name: <i>Nemophila heterophylla</i> Common Name: Canyon nemophila Location: JOMU - Wanda: All quadrants on shaded forest hillsides; EUON - East side forest Habitat Type: Forest Growth Form: Herb Flowering Period: March-April Status: none Notes: none</p>
<p>Family: Hypericaceae Scientific Name: <i>Hypericum calycinum</i> Common Name: Creeping St. John's wort Location: JOMU - Wanda: NE, on hill above north side open field Habitat Type: Ruderal Growth Form: Herb Flowering Period: June-August Status: none Notes: Escaped groundcover species</p>
<p>Family: Iridaceae Scientific Name: <i>Chasmanthe aethiopica</i> Common Name: Chasmanthe Location: JOMU - House: West side of Muir house Habitat Type: Grassland/Woodland/Forest Growth Form: Herb Flowering Period: Feb-April Status: none Notes: Planted historic</p>
<p>Family: Iridaceae Scientific Name: <i>Gladiolus hortulanus</i> Common Name: Gladiolus Location: JOMU - House: In victorian garden behind Muir house Habitat Type: Garden Growth Form: Corm Flowering Period: Spring-Fall Status: none Notes: Planted, not historic</p>

<p>Family: Iridaceae Scientific Name: <i>Iris douglasiana</i> Common Name: Douglas iris Location: JOMU - House: Native plant garden west of Franklin creek, in grass north of Adobe Habitat Type: Garden Growth Form: Bulb Flowering Period: Spring Status: none Notes: Planted, not historic</p>
<p>Family: Iridaceae Scientific Name: <i>Iris germanica</i> Common Name: Bearded iris Location: JOMU - House: Beds east of house, and in Victorian garden behind Muir house Habitat Type: Garden Growth Form: Bulb Flowering Period: Spring Status: none Notes: Planted, not historic</p>
<p>Family: Iridaceae Scientific Name: <i>Sisyrinchium bellum</i> Common Name: Blue-eyed grass Location: JOMU - Wanda: All quadrants, common wildflower; EUON - East side forest and edge of grassland Habitat Type: Grassland/Woodland/Forest Growth Form: Herb Flowering Period: Feb-April Status: none Notes: none</p>
<p>Family: Juglandaceae Scientific Name: <i>Carya illinoensis</i> Common Name: Pecan Location: JOMU - House: Two very large trees in orchard, East of Adobe Habitat Type: Orchard Growth Form: Tree Flowering Period: April-May Status: none Notes: Planted Historic</p>

<p>Family: Juglandaceae Scientific Name: <i>Juglans californica</i> var. <i>hindsii</i> Common Name: California black walnut Location: JOMU - Wanda: NW-NE, in main lot, open area on north side edge, and 1 tree at second bridge on wildflower trail; House: Several in riparian area and many in walnut orchard; Grave: Riparian; EUON - Many in old orchards Habitat Type: Woodland/Riparian/Orchard Growth Form: Tree Flowering Period: April-May Status: FC2 - Federal Endangered Species Candidate Notes: Many old orchard trees have rejected grafts of <i>Juglans regia</i> over time</p>
<p>Family: Juglandaceae Scientific Name: <i>Juglans regia</i> Common Name: English walnut Location: JOMU - Wanda: NE, on path from train tracks to road (a graft onto California walnut); House: South of pear and apricot orchard; Grave: Riparian; EUON - Single tree on Northwest corner of Tao house, several in orchards Habitat Type: Forest/Riparian Growth Form: Tree Flowering Period: April-May Status: none Notes: Many in cultivation at EUON and JOMU</p>
<p>Family: Juncaceae Scientific Name: <i>Juncus balticus</i> Common Name: Wire rush Location: POCH - Upper edge of brackish marsh Habitat Type: Brackish Marsh Growth Form: Herb Flowering Period: April-May Status: none Notes: none</p>
<p>Family: Juncaceae Scientific Name: <i>Juncus patens</i> Common Name: Spreading rush Location: JOMU - Wanda: SW-NW, along western creek in clumps; House: Riparian; EUON - East side slide area Habitat Type: Riparian/Grassland/Woodland Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>

<p>Family: Juncaceae Scientific Name: <i>Juncus xiphioides</i> Common Name: Iris-leaf juncus Location: JOMU - Wanda: NW, 1st drainage south of cement trough; EUON - East side slide area Habitat Type: Riparian/Grassland/Forest Growth Form: Herb Flowering Period: May-June Status: none Notes: none</p>
<p>Family: Juncaceae Scientific Name: <i>Luzula comosa</i> Common Name: Wood rush Location: JOMU - Wanda: NW, in woodland Habitat Type: Woodland Growth Form: Herb Flowering Period: Feb-April Status: none Notes: none</p>
<p>Family: Lamiaceae Scientific Name: <i>Lamium amplexicaule</i> Common Name: Claspig henbit Location: JOMU - Wanda: NE, along main trail near <i>Madia gracilis</i> patch; House: In field behind park offices; EUON - In large NW disked field near <i>Eucalyptus</i> Habitat Type: Ruderal Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Lamiaceae Scientific Name: <i>Lavandula angustifolia</i> Common Name: French lavender Location: JOMU - House: Victorian garden and herb garden behind Muir house Habitat Type: Garden Growth Form: shrub Flowering Period: July-August Status: none Notes: Planted, not historic</p>

<p>Family: Lamiaceae Scientific Name: <i>Lavandula dentata</i> Common Name: Fringed lavender Location: JOMU - House: Victorian garden and herb garden behind Muir house</p> <p>Habitat Type: Garden Growth Form: shrub Flowering Period: Year-round Status: none Notes: Planted, not historic</p>
<p>Family: Lamiaceae Scientific Name: <i>Melissa officinalis</i> Common Name: Lemon balm, Sweet melissa Location: JOMU - Grave: Riparian</p> <p>Habitat Type: Riparian Growth Form: Herb Flowering Period: N/A Status: none Notes: none</p>
<p>Family: Lamiaceae Scientific Name: <i>Mentha spicata</i> var. <i>spicata</i> Common Name: Spearmint Location: JOMU - House: Riparian; Grave: Riparian</p> <p>Habitat Type: Riparian Growth Form: Herb Flowering Period: N/A Status: none Notes: none</p>
<p>Family: Lamiaceae Scientific Name: <i>Monardella villosa</i> ssp. <i>villosa</i> Common Name: Coyote mint Location: JOMU - Wanda: NW-NE, hillsides in chaparral and open woodland</p> <p>Habitat Type: Chaparral/Woodland Growth Form: Herb Flowering Period: June-August Status: none Notes: none</p>

Family: Lamiaceae Scientific Name: <i>Rosmarinus officinalis</i> Common Name: Rosemary Location: JOMU - House: South of Muir house and along wall behind Visitor Center Habitat Type: Garden Growth Form: Herb Flowering Period: March-May Status: none Notes: Planted, not historic
Family: Lamiaceae Scientific Name: <i>Salvia clevelandii</i> Common Name: Cleveland sage Location: JOMU - House: Native plant garden west of Franklin creek Habitat Type: Garden Growth Form: Shrub Flowering Period: April-June Status: none Notes: California native, but not locally
Family: Lamiaceae Scientific Name: <i>Salvia greggii</i> Common Name: Autumn sage Location: JOMU - House: Southwest edge of property Habitat Type: Garden Growth Form: Shrub Flowering Period: Late Spring-Summer Status: none Notes: Planted, not historic
Family: Lamiaceae Scientific Name: <i>Salvia leucophylla</i> Common Name: Purple sage Location: JOMU - House: Native plant garden west of Franklin creek Habitat Type: Garden Growth Form: Shrub Flowering Period: April-June Status: none Notes: Planted, not historic, California native, but not locally

<p>Family: Lamiaceae Scientific Name: <i>Salvia mellifera</i> Common Name: Black sage Location: JOMU - Wanda: NW, 1 plant at top of chaparral at extreme edge of property</p> <p>Habitat Type: Chaparral Growth Form: Shrub Flowering Period: April-June Status: none Notes: Potentially the furthest north known individual of this species</p>
<p>Family: Lamiaceae Scientific Name: <i>Salvia splendens</i> Common Name: Scarlet sage Location: JOMU - House: Herb garden</p> <p>Habitat Type: Garden Growth Form: Shrub Flowering Period: Early Summer-Frost Status: none Notes: Planted, not historic</p>
<p>Family: Lamiaceae Scientific Name: <i>Salvia sonomensis</i> Common Name: Sonoma sage Location: JOMU - House: Gardens</p> <p>Habitat Type: Garden Growth Form: Shrub Flowering Period: April-June Status: none Notes: Planted, not historic, California native, but not locally</p>
<p>Family: Lamiaceae Scientific Name: <i>Satureja douglasii</i> Common Name: Yerba buena Location: EUON - East slide area</p> <p>Habitat Type: Forest Growth Form: Herb Flowering Period: May-July Status: none Notes: <i>Clinopodium douglasii</i> is the most current name for this species, but has not been recognized by the latest edition of the Jepson Manual</p>

<p>Family: Lamiaceae Scientific Name: <i>Scutellaria tuberosa</i> Common Name: Skullcap Location: JOMU - Wanda: NE, several populations in northern end of chaparral, and NW, one population along eastern edge of chaparral Habitat Type: Chaparral Growth Form: Herb Flowering Period: Feb-May Status: none Notes: none</p>
<p>Family: Lamiaceae Scientific Name: <i>Stachys ajugoides ssp. rigida</i> Common Name: Hedge nettle Location: JOMU - Wanda: All quadrants, shaded forest and woodland; Grave: Riparian; EUON - East forest Habitat Type: Forest/Woodland/Riparian Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Lauraceae Scientific Name: <i>Laurus nobilis</i> Common Name: Sweet bay Location: JOMU - House: Single tree due west of Muir house, along path, sapling in cage on west side. Habitat Type: Forest/Woodland Growth Form: Tree Flowering Period: N/A Status: none Notes: planted, not historic</p>
<p>Family: Lauraceae Scientific Name: <i>Umbellularia californica</i> Common Name: California bay Location: JOMU - Wanda: Ubiquitous in forest and woodland; House: In oval directly in front of Muir house; Grave: Riparian; EUON - East and north forest Habitat Type: Forest/Woodland Growth Form: Tree Flowering Period: N/A Status: none Notes: Planted, maybe historic</p>

<p>Family: Liliaceae Scientific Name: <i>Agapanthus orientalis</i> Common Name: Lily of the Nile Location: JOMU - House: At northwest corner of Visitor Center; Grave: In grave plot</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: June-September Status: none Notes: none</p>
<p>Family: Liliaceae Scientific Name: <i>Agave americana</i> Common Name: Century plant Location: JOMU - House: In front of Muir house, north end of oval</p> <p>Habitat Type: Garden Growth Form: Succulent Flowering Period: After 10 years produces 15-40 ft. flower stalk Status: none Notes: Planted</p>
<p>Family: Liliaceae Scientific Name: <i>Allium neopolitanum</i> Common Name: White garlic Location: JOMU - House: At rear of property, near gate behind Adobe</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: March-April Status: NOX-B Notes: none</p>
<p>Family: Liliaceae Scientific Name: <i>Allium serra</i> Common Name: Serrated onion Location: JOMU - Wanda: NW, below wildflower trail near <i>Eriophyllum</i></p> <p>Habitat Type: Woodland Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>

<p>Family: Liliaceae Scientific Name: <i>Amaryllis belladonna</i> Common Name: Naked lady, Belladonna lily Location: JOMU - Wanda: On hill above maintenance; House: Around Muir house, around adobe Habitat Type: Garden Growth Form: Herb Flowering Period: July-Sep Status: none Notes: planted</p>
<p>Family: Liliaceae Scientific Name: <i>Asparagus officinalis</i> ssp. <i>officinalis</i> Common Name: Asparagus Location: JOMU - Wanda: NE, parking area near roadside Habitat Type: Woodland Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Liliaceae Scientific Name: <i>Brodiaea elegans</i> ssp. <i>elegans</i> Common Name: Harvest brodiaea Location: JOMU - Wanda: NE-NW, woodland and chaparral, in sunny spots Habitat Type: Woodland/Chaparral Growth Form: Herb Flowering Period: May-June Status: none Notes: none</p>
<p>Family: Liliaceae Scientific Name: <i>Calochortus albus</i> Common Name: White globe lily Location: EUON - East side, between slide and creek on ridge, and at south end of east forest at edge of south draw Habitat Type: Forest Growth Form: Herb Flowering Period: May Status: Lake's Watch List Notes: none</p>

<p>Family: Liliaceae Scientific Name: <i>Calochortus venustus</i> Common Name: Butterfly mariposa lily Location: JOMU - Wanda: NE, single plant near edge of north-facing railroad cut, 1st hogback west of train tunnel Habitat Type: Woodland Growth Form: Herb Flowering Period: May-June Status: Lake's Watch List Notes: none</p>
<p>Family: Liliaceae Scientific Name: <i>Chlorogalum pomeridianum</i> var. <i>pomeridianum</i> Common Name: Wavy-leaved soap plant Location: JOMU - Wanda: All quadrants, woodland EUON - East forest Habitat Type: Woodland/Forest Growth Form: Herb Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Liliaceae Scientific Name: <i>Dichelostemma capitatum</i> ssp. <i>capitatum</i> Common Name: Blue dicks Location: JOMU - Wanda: All quadrants, open areas in oak woodland Habitat Type: Woodland Growth Form: Herb Flowering Period: Feb-April Status: none Notes: none</p>
<p>Family: Liliaceae Scientific Name: <i>Dichelostemma congestum</i> Common Name: Round tooth ookow Location: JOMU - Wanda: SW-SE (most likely in the north as well) in shaded woodland Habitat Type: Woodland Growth Form: Herb Flowering Period: April-May Status: none Notes: none</p>

<p>Family: Liliaceae Scientific Name: <i>Kniphofia uvaria</i> Common Name: Red hot poker, Torch lily Location: JOMU - House: Along main road, north of Muir house, Northeast of Adobe</p> <p>Habitat Type: Garden Growth Form: shrub Flowering Period: N/A Status: none Notes: Planted, not historic</p>
<p>Family: Liliaceae Scientific Name: <i>Narcissus sp.</i> Common Name: Narcissus, Daffodil Location: JOMU - House: Near adobe; Grave: In grave plot</p> <p>Habitat Type: Garden Growth Form: Bulb Flowering Period: N/A Status: none Notes: Planted, maybe historic</p>
<p>Family: Liliaceae Scientific Name: <i>Smilacena stellata</i> Common Name: False solomon's seal Location: EUON - Next to drainage below park offices, dense colony</p> <p>Habitat Type: Forest Growth Form: Herb Flowering Period: April-May Status: none Notes: none</p>
<p>Family: Liliaceae Scientific Name: <i>Trillium chloropetalum</i> Common Name: Giant trillium Location: EUON - East slide area, near waterfall</p> <p>Habitat Type: Forest Growth Form: Herb Flowering Period: March-April Status: W - Lake's watch list Notes: none</p>

<p>Family: Liliaceae Scientific Name: <i>Triteleia laxa</i> Common Name: Ithuriel's spear, Wally basket Location: JOMU - Wanda: All quadrants, open areas in oak woodland</p> <p>Habitat Type: Woodland Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Liliaceae Scientific Name: <i>Yucca elephantipes</i> Common Name: Giant spineless yucca Location: JOMU - Wanda: NW, just beyond the maintenance building</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: N/A Status: none Notes: Horticultural relict</p>
<p>Family: Liliaceae Scientific Name: <i>Zigadenus fremontii</i> Common Name: Star lily, Death camas Location: JOMU - Wanda: NE, above train tunnel, and NW, above chaparral</p> <p>Habitat Type: Woodland Growth Form: Herb Flowering Period: Feb-April Status: none Notes: none</p>
<p>Family: Malvaceae Scientific Name: <i>Malva nicaeensis</i> Common Name: Bull mallow Location: JOMU - Wanda: NW, SE, ruderal areas; House: Orchard, ruderal EUON - Ruderal, disked areas Habitat Type: Ruderal/Orchard Growth Form: Herb Flowering Period: May-August Status: none Notes: none</p>

<p>Family: Malvaceae Scientific Name: <i>Malvella leprosa</i> Common Name: Alkali mallow Location: JOMU - House: Orchard, ruderal</p> <p>Habitat Type: Ruderal/Orchard Growth Form: Herb Flowering Period: August-October Status: none Notes: none</p>
<p>Family: Moraceae Scientific Name: <i>Ficus carica</i> Common Name: Fig Location: JOMU - House: North side of site between carriage house and Adobe EUON - East slide area Habitat Type: Garden/Forest Growth Form: Tree Flowering Period: April-May Status: CalEPPC-A2 Notes: Trees at JOMU House are historic</p>
<p>Family: Moraceae Scientific Name: <i>Ficus pumila</i> Common Name: Creeping fig Location: JOMU - House: South fence of parking lot</p> <p>Habitat Type: Garden Growth Form: Evergreen vine Flowering Period: n/a Status: none Notes: planted, not historic</p>
<p>Family: Moraceae Scientific Name: <i>Morus alba</i> Common Name: White mulberry Location: JOMU - House: Two trees near northwest corner of site near windmill</p> <p>Habitat Type: Orchard Growth Form: Tree Flowering Period: n/a Status: none Notes: Planted, not historic</p>

<p>Family: Myricaceae Scientific Name: <i>Myrica californica</i> Common Name: Pacific wax myrtle Location: JOMU - House: along north fence, near largest fig tree</p> <p>Habitat Type: Orchard Growth Form: Tree Flowering Period: Spring Status: none Notes: Planted, not historic</p>
<p>Family: Myrtaceae Scientific Name: <i>Callistemon citrinus</i> Common Name: Lemon bottlebrush Location: JOMU - House: 3 shrubs in Muir house west bed</p> <p>Habitat Type: Garden Growth Form: Shrub Flowering Period: Spring Status: none Notes: Planted</p>
<p>Family: Myrtaceae Scientific Name: <i>Eucalyptus globulus</i> Common Name: Tasmanian blue gum Location: JOMU - Wanda: NE-NW in roadside field; EUON - NW, between field and pond</p> <p>Habitat Type: Ruderal Growth Form: Tree Flowering Period: N/A Status: CalEPPC-A1 Notes: none</p>
<p>Family: Myrtaceae Scientific Name: <i>Eucalyptus camaldulensis</i>, <i>E. cebra</i>, <i>E. cladocalyx</i>, <i>E. globulus</i>, <i>E. polyanthemos</i>, <i>E. resinifera</i>, <i>E. salicifolia</i>, <i>E. saligna</i>, <i>E. sideroxylon</i> Common Name: Murray red gum, Narrow leafed ironbark, Sugar gum, Silver dollar gum, Red mahogany, Black peppermint, Sidney blue gum, Red iron bark Location: JOMU - House: South of Muir house, (some on Caltrans land)</p> <p>Habitat Type: Garden Growth Form: Tree Flowering Period: Winter Status: Some species considered weeds, (see <i>E. globulus</i>) Notes: Mix of several species planted along fence south of Muir house, not historic</p>

<p>Family: Myrtaceae Scientific Name: <i>Eucalyptus viminalis</i> Common Name: Manna gum Location: JOMU - House: Near back of Muir house; Gravesite: single enormous tree Habitat Type: Ruderal Growth Form: Tree Flowering Period: N/A Status: none Notes: Historic</p>
<p>Family: Myrtaceae Scientific Name: <i>Feijoa sellowiana</i> Common Name: Pineapple guava Location: JOMU - House: Two trees on north side of visitor center near post office Habitat Type: Garden Growth Form: Tree/shrub Flowering Period: May-June Status: none Notes: Planted, not historic</p>
<p>Family: Myrtaceae Scientific Name: <i>Myrtus communis</i> Common Name: True myrtle Location: JOMU - House: Small one by potting shed at southeast corner of Muir house, in shade of strawberry tree Habitat Type: Garden Growth Form: Tree/shrub Flowering Period: n/a Status: none Notes: Planted, not historic</p>
<p>Family: Oleaceae Scientific Name: <i>Ligustrum ovalifolium</i> Common Name: Privet Location: JOMU - House: At path intersection northeast of Adobe Habitat Type: Garden Growth Form: Shrub/Small tree Flowering Period: May-June Status: none Notes: Planted, not historic</p>

Family: Oleaceae
Scientific Name: *Olea europea*
Common Name: Olive
Location: **JOMU** - Wanda: SE (and 1 tree in NE), large monotypic forest of Olive in SE corner of property; House: Along main park road east of carriage house
Habitat Type: Woodland/Orchard
Growth Form: Tree
Flowering Period: April-June
Status: CalEPPC-B
Notes: While the Wanda orchard is historic, it is rapidly spreading into surrounding areas

Family: Oleaceae
Scientific Name: *Osmanthus heterophyllus*
Common Name: False holly
Location: **JOMU** - House: Along west fence

Habitat Type: Garden
Growth Form: shrub/small tree
Flowering Period: Fall-early spring
Status: none
Notes: Planted, maybe historic

Family: Oleaceae
Scientific Name: *Syringa vulgaris*
Common Name: Common lilac
Location: **JOMU** - House: Four plants on west side of oval, in front of Muir house
Habitat Type: Garden
Growth Form: Herb
Flowering Period: late spring
Status: none
Notes: Planted, Historic

Family: Onagraceae

Scientific Name: *Clarkia affinis*

Common Name: Chaparral clarkia

Location: **JOMU** - Wanda: All quadrants;

EUON - Few plants in weedy lot next to barn

Habitat Type: Chaparral/Woodland/Grassland/Ruderal

Growth Form: Herb

Flowering Period: April-June

Status: Lake's Watch List

Notes: The distinction between *Clarkia affinis* and *Clarkia purpurea* ssp. *quadrivulnera* is both unclear and minute. Most keys use the character of fused sepals to differentiate the two species (all four fused or fused in pairs respectively). However, plants on Mt. Wanda were observed having both of these occurring not only in the same population, but also on the same plant. The majority, however, had all four sepals fused together. Another difference between the species is size of the immature capsule (more than 9x longer than wide or less than 8x longer than wide respectively). In this regard, the plants found on Mt. Wanda were more like *C. purpurea* ssp. *quadrivulnera*. However, none of the plants on Mt. Wanda had the typical petal coloration of *C. purpurea* ssp. *quadrivulnera*, such as was observed at Eugene O'Neill N.H.S. Lewis & Lewis (1955), state that in the vicinity of Mt. Diablo that *C. affinis* and *C. purpurea* ssp. *quadrivulnera* appear to hybridize, and that *Godetia quadrivulnera* var. *vacensis* named by Jepson is probably this hybrid. Potentially, we could then refer to this species as *C. xvacensis*, but this issue needs more study.

Family: Onagraceae

Scientific Name: *Clarkia purpurea* ssp. *quadrivulnera*

Common Name: Winecup clarkia

Location: **EUON** - Large population in field on north property border

Habitat Type: Grassland

Growth Form: Herb

Flowering Period: May-June

Status: none

Notes: This population has clear petal markings and sepals fused in pairs

Family: Onagraceae

Scientific Name: *Clarkia unguiculata*

Common Name: Elegant Clarkia

Location: **JOMU** - Wanda: NW- NE, semi-shaded hillsides, and along fire road

Habitat Type: Woodland

Growth Form: Herb

Flowering Period: April-June

Status: none

Notes: none

<p>Family: Onagraceae Scientific Name: <i>Epilobium brachycarpum</i> Common Name: Annual fireweed Location: JOMU - Wanda: NW- NE, disturbed and open areas; EUON - Ruderal; POCH - Ruderal Habitat Type: Ruderal/Grassland Growth Form: Herb Flowering Period: July-Sept Status: none Notes: none</p>
<p>Family: Onagraceae Scientific Name: <i>Epilobium canum ssp. canum</i> Common Name: California fuchsia Location: JOMU - House: Garden in Adobe area Habitat Type: Garden Growth Form: Herb/Sub-shrub Flowering Period: Spring Status: none Notes: Planted, not historic; This species is unlikely to remain in the genus <i>Epilobium</i></p>
<p>Family: Onagraceae Scientific Name: <i>Epilobium ciliatum ssp. ciliatum</i> Common Name: Willow herb Location: JOMU - House: Riparian; EUON - East side slide/seep area Habitat Type: Forest/Riparian Growth Form: Herb Flowering Period: June-Aug Status: Lake's Watch List Notes: none</p>
<p>Family: Onagraceae Scientific Name: <i>Epilobium minutum</i> Common Name: Willow herb Location: JOMU - House: Riparian; Habitat Type: Riparian Growth Form: Herb Flowering Period: June-Aug Status: Ua2- More than two locations, but seriously threatened Notes: One or two small plants, just where creek comes out of tunnel</p>

<p>Family: Onagraceae Scientific Name: <i>Gaura lindheimeri</i> Common Name: Gaura Location: JOMU - House: Garden in front of Adobe, south front</p> <p>Habitat Type: Garden Growth Form: Herb Flowering Period: Spring Status: none Notes: Planted, not historic</p>
<p>Family: Oxalidaceae Scientific Name: <i>Oxalis corniculata</i> Common Name: Wood sorrel Location: JOMU - Wanda: NE, behind maintenance EUON - Ruderal near house, on lawns</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: May-Aug Status: none Notes: No status, but a weed of concern in many areas</p>
<p>Family: Oxalidaceae Scientific Name: <i>Oxalis pes-caprae</i> Common Name: Bermuda Buttercup Location: JOMU - Wanda: NW-NE, scattered on semi-shaded hillsides. House: Shaded areas around buildings; Grave: in orchard, around grave</p> <p>Habitat Type: Woodland/Ruderal/Orchard Growth Form: Herb Flowering Period: Feb-April Status: CalEPPC-N Notes: none</p>
<p>Family: Papaveraceae Scientific Name: <i>Eschscholzia californica</i> Common Name: California poppy Location: JOMU - Wanda: All quadrants, patches in open areas; House: Edges of fields/fence lines; Grave: Orchard, field edges. EUON - Scattered. POCH - Ruderal, edge areas</p> <p>Habitat Type: Grassland/Ruderal Growth Form: Herb Flowering Period: April-July Status: CA State Flower Notes: none</p>

<p>Family: Papaveraceae Scientific Name: <i>Dicentra formosa</i> Common Name: Bleeding heart Location: JOMU - Grave: Riparian, on opposite side of creek from grave</p> <p>Habitat Type: Riparian Growth Form: Herb Flowering Period: March-May Status: Ua1 - 2 known localities or less in East Bay Notes: (potentially an escaped cultivated plant)</p>
<p>Family: Papaveraceae Scientific Name: <i>Romneya coulteri</i> Common Name: Matilija Poppy Location: JOMU - House: On slope behind Muir house</p> <p>Habitat Type: Garden Growth Form: Shrub Flowering Period: May-July Status: none Notes: Planted, historic</p>
<p>Family: Philadelphaceae Scientific Name: <i>Philadelphus lewisii</i> Common Name: Mock orange Location: JOMU - Wanda: NW, single large shrub in North field, by <i>Eucalyptus</i>; House: At Adobe; Grave: In shade next to grave plot.</p> <p>Habitat Type: Ruderal/Riparian Growth Form: Herb Flowering Period: April-May Status: none Notes: Planted. Native to CA, but not East Bay</p>
<p>Family: Pinaceae Scientific Name: <i>Cedrus atlantica</i> Common Name: Atlas Cedar Location: JOMU - House: Semicircle west of house; Grave: One tree at entrance to gravesite</p> <p>Habitat Type: Garden/Orchard Growth Form: Tree Flowering Period: N/A Status: none Notes: Planted historic</p>

<p>Family: Pinaceae Scientific Name: <i>Cedrus deodara</i> Common Name: Deodar Cedar Location: JOMU - House: One in semi-circle around Muir house, two large trees south of Adobe Habitat Type: Garden/Orchard Growth Form: Tree Flowering Period: N/A Status: none Notes: Planted historic</p>
<p>Family: Pinaceae Scientific Name: <i>Cedrus libani</i> Common Name: Cedar of Lebanon Location: JOMU - House: One in semi-circle of trees west of Muir house. Habitat Type: Garden/Orchard Growth Form: Tree Flowering Period: N/A Status: none Notes: Planted historic</p>
<p>Family: Pinaceae Scientific Name: <i>Picea glauca</i> Common Name: White spruce Location: JOMU - House: East of Adobe Habitat Type: Garden Growth Form: Tree Flowering Period: N/A Status: none Notes: Planted, not historic</p>
<p>Family: Pinaceae Scientific Name: <i>Picea pungens</i> Common Name: Colorado spruce Location: JOMU - House: Blocking "historic view" of Muir house from the Adobe Habitat Type: Garden Growth Form: Tree Flowering Period: N/A Status: none Notes: Planted, not historic</p>

<p>Family: Pinaceae Scientific Name: <i>Picea sitchensis</i> Common Name: Sitka spruce Location: JOMU - House: Single tree with flat top southeast of Adobe</p> <p>Habitat Type: Garden Growth Form: Tree Flowering Period: N/A Status: none Notes: Planted, not historic</p>
<p>Family: Pinaceae Scientific Name: <i>Pinus ponderosa</i> Common Name: Pacific ponderosa pine Location: JOMU - House: Two trees planted in lawn north of Visitor Center</p> <p>Habitat Type: Garden Growth Form: Tree Flowering Period: N/A Status: none Notes: Planted, not historic</p>
<p>Family: Pinaceae Scientific Name: <i>Pinus radiata</i> Common Name: Monterey pine Location: JOMU - Wanda: At entrance to Strain Ranch; House: Behind visitor center</p> <p>Habitat Type: Garden/Forest Growth Form: Tree Flowering Period: N/A Status: none Notes: Planted, Historic</p>
<p>Family: Pinaceae Scientific Name: <i>Pinus sabiniana</i> Common Name: Grey pine, Foothill pine Location: JOMU - Grave: 1 tree W of grave; EUON - 1 tree by Blemie's grave</p> <p>Habitat Type: Grassland Growth Form: Tree Flowering Period: N/A Status: none Notes: none</p>

<p>Family: Pinaceae Scientific Name: <i>Pinus sp.</i> Common Name: Pine Location: JOMU - Wanda: Some trees planted at main park entrance</p> <p>Habitat Type: Ruderal Growth Form: Tree Flowering Period: N/A Status: none Notes: none</p>
<p>Family: Pinaceae Scientific Name: <i>Pseudotsuga menziesii</i> Common Name: Douglas fir Location: JOMU - House: Near northeast corner of Adobe</p> <p>Habitat Type: Garden Growth Form: Tree Flowering Period: N/A Status: none Notes: Planted, not historic</p>
<p>Family: Pittosporaceae Scientific Name: <i>Pittosporum tobira</i> Common Name: Japanese mock-orange Location: JOMU - House: Hedges along west fence lilne</p> <p>Habitat Type: Garden Growth Form: Shrub Flowering Period: N/A Status: none Notes: Planted, not historic</p>
<p>Family: Plantaginaceae Scientific Name: <i>Plantago lanceolata</i> Common Name: Lanceleaf Plantain, English Plantain Location: JOMU - Wanda: Widespread in disturbed, open areas; House: fields; EUON - Disturbed, open areas; POCH - mowed areas Habitat Type: Ruderal/Grassland Growth Form: Herb Flowering Period: March-June Status: none Notes: none</p>

<p>Family: Plantaginaceae Scientific Name: <i>Plantago major</i> Common Name: Big leaf plantain Location: JOMU - House: Riparian; Grave: Riparian; POCH - edge of high tide area Habitat Type: Riparian/Brackish marsh Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Platanaceae Scientific Name: <i>Platanus racemosa</i> Common Name: California sycamore Location: JOMU - Grave: Riparian Habitat Type: Riparian Growth Form: Tree Flowering Period: N/A Status: Ua2 - More than 2 localities known, but seriously threatened Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Agrostis exarata</i> Common Name: Spike redtop Location: JOMU - Wanda: SW, in bottom of creek below main confluence; Grave: Creekbed Habitat Type: Riparian Growth Form: Grass Flowering Period: May-June Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Agrostis stolonifera</i> Common Name: Creeping bent Location: JOMU - House: Riparian Habitat Type: Riparian Growth Form: Grass Flowering Period: June-August Status: none Notes: Species determination uncertain</p>

<p>Family: Poaceae Scientific Name: <i>Aira caryophyllea</i> Common Name: Hairgrass Location: JOMU - Wanda: NE, open hillsides; EUON - open areas Habitat Type: Grassland/Ruderal Growth Form: Grass Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Arundo donax</i> Common Name: Giant Reed, Arundo Location: JOMU - House: Riparian. Grave: Riparian Habitat Type: Riparian Growth Form: Grass Flowering Period: June-Sept Status: CalEPPC-A1 Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Avena barbata</i> Common Name: Slender Wild Oat Location: JOMU - Wanda: all quadrants, widespread; Grave: Orchards, ruderal; EUON - open areas Habitat Type: Grassland/Ruderal/Orchard Growth Form: Grass Flowering Period: March-June Status: CalEPPC-G Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Avena fatua</i> Common Name: Wild Oat Location: JOMU - Wanda: Ubiquitous; House: Ubiquitous; Grave: Ubiquitous; EUON - Ubiquitous; POCH - Ruderal, edge area Habitat Type: Grassland/Ruderal/Orchard Growth Form: Grass Flowering Period: March-June Status: CalEPPC-G Notes: This non-native is one of the most abundant annual grasses in all areas surveyed</p>

<p>Family: Poaceae Scientific Name: <i>Briza minor</i> Common Name: Quaking grass Location: JOMU - Wanda: NW-NE, few patches in open areas; EUON - North grassland beyond forest Habitat Type: Woodland/Chaparral Growth Form: Grass Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Bromus carinatus</i> var. <i>carinatus</i> Common Name: California brome Location: JOMU - Wanda: All quadrants; House: Edge of fields, fence lines; EUON - Grassland, Forest, Orchards Habitat Type: Grassland/Ruderal/Orchard/Forest Growth Form: Grass Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Bromus diandrus</i> Common Name: Rip-gut brome Location: JOMU - Wanda: Ubiquitous; House: Edge of fields, fence lines; EUON - Grassland, forest, orchards; POCH - Ruderal, edge area Habitat Type: Grassland/Ruderal/Orchard/Forest Growth Form: Grass Flowering Period: April-June Status: CalEPPC-G Notes: This is one of the most abundant annual grasses in all areas surveyed.</p>
<p>Family: Poaceae Scientific Name: <i>Bromus hordeaceus</i> Common Name: Soft chess Location: JOMU - Wanda: Ubiquitous; House: Orchards, fields; EUON - Grassland, ruderal Habitat Type: Grassland/Ruderal/Orchard Growth Form: Grass Flowering Period: March-May Status: none Notes: none</p>

<p>Family: Poaceae Scientific Name: <i>Bromus madritensis</i> ssp. <i>rubens</i> Common Name: Foxtail chess, Red brome Location: JOMU - Wanda: NW, along wildflower trail, woodland; POCH - Rederal, edge area Habitat Type: Grassland/Woodland/Ruderal Growth Form: Grass Flowering Period: March-May Status: CalEPPC-A2 Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Cynodon dactylon</i> Common Name: Bermuda grass Location: JOMU - Wanda: NE, at entrance gate to fire road; House: Lawn behind adobe; Grave: Orchard, ruderal; EUON - NW field next to water-main and barn; POCH - Mowed area Habitat Type: Ruderal/Orchard Growth Form: Grass Flowering Period: April-July Status: NOX-C Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Cynosorus echinatus</i> Common Name: Hedgehog dogtail Location: JOMU - Wanda: NE, over tunnel; Grave: Orchard, ruderal; EUON - Grassland, Orchards Habitat Type: Ruderal/Orchard/Woodland Growth Form: Grass Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Dactylis glomerata</i> Common Name: Orchard grass Location: JOMU - Wanda: NE, field next to road; EUON - East slide area Habitat Type: Ruderal Growth Form: Grass Flowering Period: May-July Status: none Notes: none</p>

<p>Family: Poaceae Scientific Name: <i>Deschampsia cespitosa ssp. holciformis</i> Common Name: Tufted hairgrass. Location: POCH - Ruderal, edge area</p> <p>Habitat Type: Ruderal Growth Form: Grass Flowering Period: April-June Status: Ub - 3-5 localities known in East Bay Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Deschampsia elongata</i> Common Name: Slender hairgrass Location: EUON - Next to picnic table at park office entrance</p> <p>Habitat Type: Ruderal Growth Form: Grass Flowering Period: April-June Status: Lake's Watch List Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Distichlis spicata</i> Common Name: Saltgrass Location: POCH - High tidal march</p> <p>Habitat Type: Brackish marsh Growth Form: Grass Flowering Period: June-July Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Elymus glaucus ssp. glaucus</i> Common Name: Blue wildrye Location: JOMU - Wanda: All quadrants; EUON - Grassland, Woodland Habitat Type: Woodland/Grassland/Forest Growth Form: Grass Flowering Period: May-July Status: none Notes: none</p>

<p>Family: Poaceae Scientific Name: <i>Festuca rubra</i> Common Name: Red fescue Location: JOMU - House: North side of Adobe, lawn</p> <p>Habitat Type: Woodland/Grassland/Forest Growth Form: Grass Flowering Period: May-July Status: none Notes: planted, not historic</p>
<p>Family: Poaceae Scientific Name: <i>Gastridium ventricosum</i> Common Name: Nit grass Location: JOMU - Wanda: NW, top of chaparral and along train tracks; Grave: Orchard, ruderal Habitat Type: Woodland/Orchard/Ruderal Growth Form: Grass Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Hordeum brachyantherum</i> ssp. <i>brachyantherum</i> Common Name: Meadow barley Location: POCH - Ruderal, edge area</p> <p>Habitat Type: Ruderal Growth Form: Grass Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Hordeum marinum</i> ssp. <i>gussoneanum</i> Common Name: Mouse barley Location: JOMU - Wanda: NW-NE, open areas, dried pond; House: Fields; EUON - Grassland Habitat Type: Grassland/Ruderal Growth Form: Grass Flowering Period: April-June Status: none Notes: none</p>

<p>Family: Poaceae Scientific Name: <i>Hordeum murinum</i> ssp. <i>leporinum</i> Common Name: Foxtail barley Location: JOMU - Wanda: Ubiquitous; House: Fields, orchards; Grave: Orchard, ruderal; EUON - Grassland, ruderal Habitat Type: Grassland/Ruderal/Woodland Growth Form: Grass Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Leymus triticoides</i> Common Name: Creeping wild rye Location: JOMU - Wanda: All quadrants, sunny to semi-shaded areas; House: Riparian, near upper end of creek at Culvert; Grave: Riparian Habitat Type: Grassland/Woodland Growth Form: Grass Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Lolium multiflorum</i> Common Name: Italian rye grass Location: JOMU - Wanda: Ubiquitous; House: Ruderal, field edges; EUON - Ubiquitous Habitat Type: Grassland/Ruderal/Woodland/Orchard Growth Form: Grass Flowering Period: March-June Status: CalEPPC-G Notes: This is one of the most abundant non-native annual grasses of areas surveyed</p>
<p>Family: Poaceae Scientific Name: <i>Melica californica</i> Common Name: California melic Location: JOMU - Wanda: NW, woodland, North-facing slopes; House: Riparian Habitat Type: Woodland/Riparian Growth Form: Grass Flowering Period: April-June Status: none Notes: none</p>

<p>Family: Poaceae Scientific Name: <i>Melica torreyana</i> Common Name: Torrey melic Location: JOMU - Wanda: All quadrants; EUON - Forest above slide Habitat Type: Woodland/Forest Growth Form: Grass Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Nasella lepida</i> Common Name: Foothill needlegrass Location: JOMU - Wanda: NW, top of chaparral Habitat Type: Woodland/Chaparral Growth Form: Grass Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Nasella pulchra</i> Common Name: Purple needlegrass Location: JOMU - Wanda: All quadrants; House: Along SW fence line Habitat Type: Grassland/Woodland Growth Form: Grass Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Phalaris aquatica</i> Common Name: Harding grass Location: JOMU - House: Riparian; EUON - Orchard Habitat Type: Orchard/Riparian Growth Form: Grass Flowering Period: May-August Status: CalEPPC-B Notes: Field just south of property with very large population of this weedy species</p>

<p>Family: Poaceae Scientific Name: <i>Phalaris minor</i> Common Name: Littleseed canary grass Location: EUON - Orchard, disked areas</p> <p>Habitat Type: Orchard Growth Form: Grass Flowering Period: July-Sep Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Phalaris paradoxa</i> Common Name: Hood canary grass Location: JOMU - Wanda: NW, 1st drainage south of trough, and patches in north top grassland Habitat Type: Grassland Growth Form: Grass Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Piptatherum miliaceum</i> Common Name: Smilo grass Location: EUON - Edge of road below pool; POCH - Ruderal Habitat Type: Ruderal Growth Form: Grass Flowering Period: April-July Status: CalEPPC-N Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Poa annua</i> Common Name: Annual bluegrass Location: JOMU - Wanda: All quadrants, ruderal; House: Ruderal, orchard; Grave: Orchard, ruderal; EUON - Ruderal Habitat Type: Ruderal Growth Form: Grass Flowering Period: March-May Status: none Notes: none</p>

<p>Family: Poaceae Scientific Name: <i>Poa pratensis</i> Common Name: Kentucky bluegrass Location: JOMU - House: Behind Adobe</p> <p>Habitat Type: Ruderal Growth Form: Grass Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Poa secunda ssp. secunda</i> Common Name: One-sided bluegrass Location: JOMU - Wanda: NW-NE-SW, patches in shaded woodland and forest Habitat Type: Woodland/Forest Growth Form: Grass Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Polypogon monspeliensis</i> Common Name: Rabbit's foot grass Location: JOMU - Wanda: SW, growing in sunny drainage, and NW in dried pond; House: Riparian; Grave: Orchard, riparian, ruderal; EUON - East slide area; POCH - High brackish marsh Habitat Type: Riparian/Orchard/Ruderal/Brackish Marsh Growth Form: Grass Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Triticum aestivum</i> Common Name: Wheat Location: JOMU - Wanda: Along train tracks; House: occasionally planted as small demo crop south of Adobe; Grave: Southern end of orchard; EUON - NW, ruderal Habitat Type: Ruderal/Orchard Growth Form: Grass Flowering Period: April-August Status: none Notes: planted, few feral plants</p>

<p>Family: Poaceae Scientific Name: <i>Vulpia bromoides</i> Common Name: Brome fescue Location: JOMU - Wanda: NE, in open areas; EUON - Grassland, ruderal Habitat Type: Grassland/Woodland/Ruderal Growth Form: Grass Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Vulpia microstachys</i> var. <i>pauciflora</i> Common Name: Few-flowered fescue Location: JOMU - Wanda: NE, in one dry open slope over tracks Habitat Type: Woodland/Chaparral Growth Form: Grass Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Vulpia myuros</i> var. <i>hirsuta</i> Common Name: Rat-tail fescue Location: JOMU - House: Orchard near Adobe Habitat Type: Orchard Growth Form: Grass Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Poaceae Scientific Name: <i>Vulpia myuros</i> var. <i>myuros</i> Common Name: Fox-tail fescue Location: JOMU - Wanda: NE, along road; EUON - Grassland, ruderal Habitat Type: Grassland/Ruderal Growth Form: Grass Flowering Period: March-May Status: none Notes: none</p>

<p>Family: Polemoniaceae Scientific Name: <i>Linanthus bicolor</i> Common Name: Bicolored linanthus Location: JOMU - Wanda: NE-NW, north-facing oak woodland hillsides</p> <p>Habitat Type: Woodland Growth Form: Herb Flowering Period: March-April Status: none Notes: none</p>
<p>Family: Polemoniaceae Scientific Name: <i>Phlox gracilis</i> Common Name: Slender phlox Location: JOMU - Wanda: NE-NW, shaded north-facing oak woodland hillsides</p> <p>Habitat Type: Woodland Growth Form: Herb Flowering Period: March-April Status: none Notes: none</p>
<p>Family: Polygonaceae Scientific Name: <i>Eriogonum nudum</i> var. <i>auriculatum</i> Common Name: Nude buckwheat Location: JOMU - Wanda: All quadrants, scattered in dry, open hillsides</p> <p>Habitat Type: Grassland/Chaparral/Ruderal Growth Form: Herb Flowering Period: June-August Status: none Notes: none</p>
<p>Family: Polygonaceae Scientific Name: <i>Polygonum arenastrum</i> Common Name: Common knotweed Location: JOMU - Wanda: NE, in field near <i>Eucalyptus</i>; House: Orchards, vineyard; EUON - Ruderal, Blemie's grave</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: May-July Status: none Notes: none</p>

<p>Family: Polygonaceae Scientific Name: <i>Rumex acetosella</i> Common Name: Sheep sorrel Location: JOMU - Wanda: NW-NE, field margins and ruderal areas (probably in south as well) Habitat Type: Ruderal/Grassland Growth Form: Herb Flowering Period: Feb-July Status: none Notes: none</p>
<p>Family: Polygonaceae Scientific Name: <i>Rumex crispus</i> Common Name: Curly dock, Yellow dock Location: JOMU - Wanda: All quadrants, common in fields and roads; House: Ruderal, field edges, riparian; Grave: Orchard, ruderal; EUON - Ruderal, grassland; POCH - Ruderal Habitat Type: Ruderal/Grassland/Riparian/Orchard Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Polygonaceae Scientific Name: <i>Rumex pulcher</i> Common Name: Fiddle dock Location: JOMU - Wanda: NW-NE, woodland margins; House: Riparian; Grave: Riparian; EUON - Above pond, towards Tao House, ruderal Habitat Type: Woodland/Riparian/Ruderal Growth Form: Herb Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Polypodiaceae Scientific Name: <i>Polypodium calirhiza</i> Common Name: California polypody Location: JOMU - Wanda: NW, dark woods; EUON - East forest and slide area Habitat Type: Forest Growth Form: Fern Flowering Period: N/A Status: none Notes: none</p>

<p>Family: Portulacaceae Scientific Name: <i>Calandrinia ciliata</i> Common Name: Red maids Location: JOMU - Wanda: NW-NE-SW, widespread along roads, at times in grassland; EUON - Ruderal, disked areas Habitat Type: Ruderal/Grassland Growth Form: Herb Flowering Period: March-April Status: none Notes: none</p>
<p>Family: Portulacaceae Scientific Name: <i>Claytonia perfoliata ssp. perfoliata</i> Common Name: Miner's lettuce Location: JOMU - Wanda: Ubiquitous, mostly in woodland; House: Ubiquitous; Grave: Orchard, shaded areas; EUON - Ruderal, disked areas Habitat Type: Woodland/Forest/Grassland Growth Form: Herb Flowering Period: January-April Status: none Notes: none</p>
<p>Family: Portulacaceae Scientific Name: <i>Portulaca oleracea</i> Common Name: Common purslane Location: JOMU - House: Orchards Habitat Type: Orchard Growth Form: Herb Flowering Period: June-July Status: none Notes: none</p>
<p>Family: Primulaceae Scientific Name: <i>Anagallis arvensis</i> Common Name: Scarlet pimpernel Location: JOMU - Wanda: All quadrants, ruderal and open areas; House: Ruderal, orchards; EUON - Ruderal, disked areas Habitat Type: Ruderal/Orchard Growth Form: Herb Flowering Period: March-June Status: none Notes: none</p>

<p>Family: Primulaceae Scientific Name: <i>Dodecatheon hendersonii</i> Common Name: Shooting star Location: JOMU - Wanda: NW-NE, generally oak woodland</p> <p>Habitat Type: Woodland/Forest Growth Form: Herb Flowering Period: Feb-April Status: none Notes: none</p>
<p>Family: Pteridaceae Scientific Name: <i>Adiantum jordanii</i> Common Name: Maidenhair fern Location: JOMU - Wanda: All quadrants, heavily shaded moist areas; EUON - East forest</p> <p>Habitat Type: Forest Growth Form: Fern Flowering Period: N/A Status: none Notes: none</p>
<p>Family: Pteridaceae Scientific Name: <i>Pellaea andromedifolia</i> Common Name: Coffee fern Location: JOMU - Wanda: NW-NE, chaparral</p> <p>Habitat Type: Chaparral Growth Form: Fern Flowering Period: N/A Status: none Notes: none</p>
<p>Family: Pteridaceae Scientific Name: <i>Pentagramma triangularis</i> ssp. <i>triangularis</i> Common Name: Goldback fern Location: JOMU - Wanda: All quadrants, steep areas, usually shaded by other plants EUON - East forest</p> <p>Habitat Type: Chaparral/Forest Growth Form: Fern Flowering Period: N/A Status: none Notes: none</p>

<p>Family: Punicaceae Scientific Name: <i>Punica granatum</i> Common Name: Pomegranite Location: JOMU - Wanda: NE, between parking area and main trail; House: Along walkways south and north of house; Grave: Orchard, one large shrub Habitat Type: Ruderal/Orchard Growth Form: Shrub Flowering Period: N/A Status: none Notes: Planted, not historic</p>
<p>Family: Ranunculaceae Scientific Name: <i>Clematis armandii</i> Common Name: Evergreen clematis Location: JOMU - House: Along southeast fence Habitat Type: Garden Growth Form: Vine Flowering Period: March-April Status: none Notes: Planted</p>
<p>Family: Ranunculaceae Scientific Name: <i>Delphinium hesperium</i> ssp. <i>hesperium</i> Common Name: Foothill Larkspur Location: JOMU - Wanda: NW, on SW-facing slope near fence, and NE, below wildflower trail, between 3 & 4 markers Habitat Type: Woodland Growth Form: Herb Flowering Period: March-May Status: none Notes: Flowered early on sunny NW slope, late on NE</p>
<p>Family: Ranunculaceae Scientific Name: <i>Ranunculus californicus</i> Common Name: California buttercup Location: JOMU - Wanda: Ubiquitous; EUON - Edge of grassland and forest on East and North Habitat Type: Woodland/Grassland/Forest Growth Form: Herb Flowering Period: March-May Status: none Notes: Some will flower earlier and later than range above</p>

<p>Family: Ranunculaceae Scientific Name: <i>Ranunculus muricatus</i> Common Name: Spiny buttercup Location: JOMU - Wanda: SW-SE-NE, on roads, generally in damp, shaded areas</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Rhamnaceae Scientific Name: <i>Rhamnus californica ssp. californica</i> Common Name: California coffeeberry Location: JOMU - Wanda: NW-NE-SE, shaded forest, and few on top of train tunnel</p> <p>Habitat Type: Forest/Woodland Growth Form: Shrub Flowering Period: Mar-May Status: none Notes: none</p>
<p>Family: Rosaceae Scientific Name: <i>Adenostoma fasciculatum</i> Common Name: Chamise Location: JOMU - Wanda: NW-NE, chaparral</p> <p>Habitat Type: Chaparral Growth Form: Shrub Flowering Period: June-Aug Status: none Notes: none</p>
<p>Family: Rosaceae Scientific Name: <i>Aphanes occidentalis</i> Common Name: Lady's mantle Location: JOMU - Wanda: All quadrants, roads and woodland near roads</p> <p>Habitat Type: Ruderal/Woodland Growth Form: Herb Flowering Period: Feb-April Status: none Notes: none</p>

<p>Family: Rosaceae Scientific Name: <i>Chaenomeles lagenaria</i> Common Name: Japanese quince Location: JOMU - House: In front of muir house just past large bay tree inside oval</p> <p>Habitat Type: Orchard/Garden Growth Form: Tree Flowering Period: March-May Status: none Notes: Planted historic trees</p>
<p>Family: Rosaceae Scientific Name: <i>Cotoneaster dammeri</i> Common Name: Bearberry cotoneaster Location: JOMU - House: Adobe garden area</p> <p>Habitat Type: Garden/Ruderal Growth Form: Shrub Flowering Period: April-June Status: CalEPPC-N Notes: none</p>
<p>Family: Rosaceae Scientific Name: <i>Cotoneaster franchetii</i> Common Name: Franchet cotoneaster Location: JOMU - Wanda: NE, along NE road; House: Fence lines; EUON - Forest just above slide area</p> <p>Habitat Type: Ruderal Growth Form: Shrub Flowering Period: April-June Status: CalEPPC-N Notes: none</p>
<p>Family: Rosaceae Scientific Name: <i>Cotoneaster lacteus</i> Common Name: Big-leafed cotoneaster Location: JOMU - House: South fence line</p> <p>Habitat Type: Ruderal Growth Form: Shrub Flowering Period: June-Aug Status: CalEPPC-A2 Notes: none</p>

Family: Rosaceae
 Scientific Name: *Crataegus laevigata*
 Common Name: English Hawthorn
 Location: **JOMU** - House: NE corner of Park, right by gate; Grave: Large tree next to grave plot

Habitat Type: Garden/Orchard
 Growth Form: Tree
 Flowering Period: N/A
 Status: none
 Notes: Planted, May be removed in future

Family: Rosaceae
 Scientific Name: *Cydonia oblonga*
 Common Name: Quince
 Location: **JOMU** - Wanda: SE, on road just entering park, forest below olive orchard; House: West of Carriage house, and one in front of Adobe
 Habitat Type: Garden/Orchard
 Growth Form: Tree
 Flowering Period: N/A
 Status: none
 Notes: Planted historic

Family: Rosaceae
 Scientific Name: *Eriobotrya japonica*
 Common Name: Loquat
 Location: **JOMU** - House: Southeast corner of house, near potting shed
 Habitat Type: Garden
 Growth Form: Tree
 Flowering Period: Winter
 Status: none
 Notes: Planted, not historic

Family: Rosaceae
 Scientific Name: *Heteromeles arbutifolia*
 Common Name: Toyon
 Location: **JOMU** - Wanda: All quadrants, in woodland and chaparral; House: Fence lines, edges of fields; **EUON** - East and north forest
 Habitat Type: Chaparral
 Growth Form: Shrub
 Flowering Period: June-Aug
 Status: none
 Notes: none

Family: Rosaceae

Scientific Name: *Holodiscus discolor*

Common Name: Oceanspray

Location: **JOMU** - Wanda: NW in draw between chaparral and forest

Habitat Type: Chaparral/Forest

Growth Form: Shrub

Flowering Period: Feb-April

Status: none

Notes: none

Family: Rosaceae

Scientific Name: *Malus sylvestris*

Common Name: Apple

Location: **JOMU** - Wanda: one tree in SW on hill in grassland; House: Apple orchard from turnstile to south east corner of site, one tree near southwest corner of Muir house;

Habitat Type: Forest/Grassland

Growth Form: Tree

Flowering Period: April-May

Status: none

Notes: none

Family: Rosaceae

Scientific Name: *Oemleria cerasiformis*

Common Name: Oso berry

Location: **JOMU** - Wanda: NW-NE, shaded forest, one bush in SE forest

Habitat Type: Forest

Growth Form: Shrub

Flowering Period: Feb-May

Status: none

Notes: none

Family: Rosaceae

Scientific Name: *Potentilla anserina ssp. pacifica*

Common Name: Pacific silverweed

Location: **POCH** - Marsh, high-tide zone

Habitat Type: Brackish Marsh

Growth Form: Herb

Flowering Period: April-May

Status: Ua2 - More than 2 localities known in the East Bay, but seriously threatened

Notes: none

<p>Family: Rosaceae Scientific Name: <i>Potentilla glandulosa ssp. glandulosa</i> Common Name: Sticky cinquefoil Location: JOMU - Wanda: SW, Riparian, densely shaded forest; EUON - East side forest, Riparian Habitat Type: Riparian Growth Form: Herb Flowering Period: May-June Status: none Notes: none</p>
<p>Family: Rosaceae Scientific Name: <i>Prunus armeniaca</i> Common Name: Apricot Location: JOMU - Wanda: SE, relict orchard on SE facing slope, with scattered remaining trees; House: Orchard; Grave: Orchard; EUON - Orchard Habitat Type: Orchard/Grassland Growth Form: Tree Flowering Period: Feb-April Status: none Notes: All Apricot trees are planted, some historic</p>
<p>Family: Rosaceae Scientific Name: <i>Prunus avium</i> Common Name: Sweet cherry Location: JOMU - House: Single tree in orchard, behind visitor center near north fence west of peaches Habitat Type: Orchard Growth Form: Tree Flowering Period: February-April Status: none Notes: planted, not historic</p>
<p>Family: Rosaceae Scientific Name: <i>Prunus cerasifera</i> Common Name: Cherry plum Location: JOMU - Wanda: All quadrants, scattered in shaded and open areas. House: near garden areas. Grave: Orchard, ruderal; EUON - East side forest, slide area Habitat Type: Ruderal/Forest/Woodland Growth Form: Tree Flowering Period: Feb-April Status: CalEPPC-N Notes: several relict individuals as well as seedlings and saplings</p>

<p>Family: Rosaceae Scientific Name: <i>Prunus domestica</i> Common Name: Plum Location: JOMU - House: Plum orchard west of Muir house from Giant Sequoia to south fence; EUON - Orchard north of Tao house Habitat Type: Orchard Growth Form: Tree Flowering Period: Feb-April Status: none Notes: none</p>
<p>Family: Rosaceae Scientific Name: <i>Prunus dulcis</i> Common Name: Almond Location: JOMU - Wanda: NE, at entrance of main trail and solitary tree further up road; House: North of carriage house Habitat Type: Orchard/Ruderal Growth Form: Tree Flowering Period: Feb-April Status: none Notes: Planted and escaped, representation of historic orchard</p>
<p>Family: Rosaceae Scientific Name: <i>Prunus ilicifolia</i> ssp. <i>ilicifolia</i> Common Name: Catalina cherry Location: JOMU - House: Planted native, along creek Habitat Type: Garden Growth Form: Tree Flowering Period: April-May Status: none Notes: Planted, not historic</p>
<p>Family: Rosaceae Scientific Name: <i>Prunus ilicifolia</i> ssp. <i>lyonii</i> Common Name: Catalina cherry Location: JOMU - House: One existing tree in native plants garden Habitat Type: Garden Growth Form: Tree Flowering Period: April-May Status: none Notes: Planted, not historic; Native to CA, but not East Bay</p>

<p>Family: Rosaceae Scientific Name: <i>Prunus persica</i> Common Name: Peach Location: JOMU - House: Orchard on north side of site; Grave: Orchard</p> <p>Habitat Type: Orchard Growth Form: Tree Flowering Period: April-May Status: none Notes: part of historic orchard</p>
<p>Scientific Name: <i>Prunus salicina</i> Common Name: Japanese plum Location: JOMU - House: Plum orchard west of Muir house from Giant Sequoia to south fence Habitat Type: Orchard Growth Form: Tree Flowering Period: April-May Status: none Notes: planted, not historic</p>
<p>Family: Rosaceae Scientific Name: <i>Pyracantha angustifolia</i> Common Name: Firethorn Location: JOMU - Wanda: NE, on trail, just west of train trestle</p> <p>Habitat Type: Ruderal Growth Form: Shrub Flowering Period: April-May Status: CalEPPC-N Notes: single plant, does not appear to be spreading</p>
<p>Family: Rosaceae Scientific Name: <i>Pyracantha coccinea</i> Common Name: Firethorn Location: JOMU - House: Between Adobe and Ramada</p> <p>Habitat Type: Garden Growth Form: Shrub Flowering Period: April-May Status: Notes: single plant, does not appear to be spreading, planted, not historic</p>

<p>Family: Rosaceae Scientific Name: <i>Pyrus communis</i> Common Name: Common pear Location: JOMU - Wanda: Single old tree next to barn on Strain Ranch; House: Orchard west of Franklin creek, west of carriage house; Grave: Orchard Habitat Type: Orchard Growth Form: Tree Flowering Period: March-May Status: none Notes: Historic orchard</p>
<p>Family: Rosaceae Scientific Name: <i>Rhaphiolepis indica</i> Common Name: Indian hawthorn Location: JOMU - House: Retained in non-historic area Habitat Type: Garden Growth Form: Shrub Flowering Period: Spring and Fall Status: none Notes: planted, not historic</p>
<p>Family: Rosaceae Scientific Name: <i>Rosa banksiae</i> Common Name: Lady Banks rose Location: JOMU - House: Adobe garden Habitat Type: Garden Growth Form: Shrub Flowering Period: Spring Status: none Notes: planted, historic</p>
<p>Family: Rosaceae Scientific Name: <i>Rosa californica</i> Common Name: California rose Location: JOMU - House: Riparian, next to bridge; Grave: Riparian Habitat Type: Riparian Growth Form: shrub Flowering Period: April-June Status: none Notes: none</p>

<p>Family: Rosaceae Scientific Name: <i>Rosa gymnocarpa</i> Common Name: Dwarf rose, Wood rose Location: JOMU - Wanda: SE-NW, on shaded forest slopes</p> <p>Habitat Type: Forest Growth Form: Shrub Flowering Period: March-April Status: none Notes: none</p>
<p>Family: Rosaceae Scientific Name: <i>Rosa harisonii</i> Common Name: Harison's yellow rose Location: JOMU - House: Near southwest corner of Muir house lawn, outside oval Habitat Type: Garden Growth Form: Shrub Flowering Period: Spring Status: none Notes: planted, maybe historic</p>
<p>Family: Rosaceae Scientific Name: <i>Rosa laevigata</i> Common Name: Cherokee rose Location: JOMU - House: Next to back fence near southwest corner of Adobe</p> <p>Habitat Type: Garden Growth Form: Shrub Flowering Period: Spring Status: none Notes: planted, historic, Muir favorite</p>
<p>Family: Rosaceae Scientific Name: <i>Rosa</i> sp. Common Name: Rose Location: JOMU - House: Rose garden in oval north of Muir house</p> <p>Habitat Type: Garden Growth Form: Shrub Flowering Period: Spring Status: none Notes: planted, not historic</p>

<p>Family: Rosaceae Scientific Name: <i>Rubus discolor</i> Common Name: Himalaya blackberry Location: JOMU - Wanda: NE, single clump at edge of field near maintenance; House: Fencelines, riparian; Grave: Riparian, orchard edge; EUON - East slide area Habitat Type: Ruderal/Riparian/Forest Growth Form: Shrub Flowering Period: March-July Status: CalEPPC-A1 Notes: none</p>
<p>Family: Rosaceae Scientific Name: <i>Rubus ursinus</i> Common Name: California blackberry Location: JOMU - Wanda: All quadrants, along creeks and ruderal areas; Grave: Riparian. EUON - East side slide area Habitat Type: Riparian/Forest Growth Form: Shrub Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Rosaceae Scientific Name: <i>Spirea prunifolia</i> Common Name: Bridal-wreath spirea Location: JOMU - House: Garden in front of Adobe Habitat Type: Garden Growth Form: Shrub Flowering Period: March-May Status: none Notes: Planted, historic, absent at time of survey, but will be replanted</p>
<p>Family: Rubiaceae Scientific Name: <i>Galium aparine</i> Common Name: Goosegrass Location: JOMU - Wanda: Ubiquitous; House: ubiquitous; Grave: Ubiquitous; EUON - Ubiquitous Habitat Type: All Habitats Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>

<p>Family: Rubiaceae Scientific Name: <i>Galium murale</i> Common Name: Tiny bedstraw Location: JOMU - Wanda: NE, between tracks and maintenance, probably elsewhere; EUON - NE, finger of grassland between two stretches of forest Habitat Type: Grassland/Ruderal Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Rubiaceae Scientific Name: <i>Galium porrigens</i> var. <i>porrigens</i> Common Name: Bedstraw Location: JOMU - Wanda: All quadrants, in shaded areas; EUON - East side forest area Habitat Type: Woodland/Forest Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Rubiaceae Scientific Name: <i>Sherardia arvensis</i> Common Name: Field madder Location: EUON - NE, finger of grassland between forest habitats Habitat Type: Grassland Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Rutaceae Scientific Name: <i>Citrus limon</i> Common Name: Lemon Location: JOMU - House: One tree near southeast corner of Muir house, Lemon orchard in southwest corner of site Habitat Type: Garden/Orchard Growth Form: Small tree Flowering Period: Year round producer Status: none Notes: Planted, not historic</p>

<p>Family: Rutaceae Scientific Name: <i>Citrus sinensis</i> Common Name: Orange Location: JOMU - House: One tree directly behind Muir house, southeast corner, Orange grove east of Adobe Habitat Type: Garden/Orchard Growth Form: Small tree Flowering Period: Winter/Spring Status: none Notes: Planted, not historic</p>
<p>Family: Rutaceae Scientific Name: <i>Ptelea crenulata</i> Common Name: Hop tree Location: JOMU - Wanda: NW-NE-SE, occasional shrub/small tree on forest and woodland margins Habitat Type: Woodland/Forest Growth Form: Shrub/Small tree Flowering Period: April-May Status: Ub - 3-5 localities known in East Bay Notes: More common than believed - occurs on Chaparral/Forest ecotones</p>
<p>Family: Salicaceae Scientific Name: <i>Populus fremontii ssp. fremontii</i> Common Name: Fremont cottonwood Location: JOMU - Wanda: SE, edge of Strain property; Habitat Type: Riparian/Ruderal Growth Form: Tree Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Salicaceae Scientific Name: <i>Salix laevigata</i> Common Name: Red willow Location: JOMU - Wanda: NW corner of NW quadrant, above tracks; House: Riparian Grave: Riparian Habitat Type: Riparian/Ruderal Growth Form: Tree Flowering Period: March-June Status: none Notes: none</p>

<p>Family: Salicaceae Scientific Name: <i>Salix lasiolepis</i> Common Name: Arroyo willow Location: JOMU - Wanda: NW-NE, Dry North-facing slope above tracks; House: Riparian; Grave: Riparian; EUON - East side next to office, slide area Habitat Type: Riparian/Ruderal Growth Form: Tree Flowering Period: May-June Status: none Notes: none</p>
<p>Family: Saxifragaceae Scientific Name: <i>Bergenia crassifolia</i> Common Name: Winter blooming bergenia Location: JOMU - House: East bed of Muir house Habitat Type: Garden Growth Form: Herb Flowering Period: Winter Status: none Notes: planted</p>
<p>Family: Saxifragaceae Scientific Name: <i>Carpenteria californica</i> Common Name: Bush anemone Location: JOMU - House: Native plant garden Habitat Type: Garden Growth Form: shrub Flowering Period: Spring Status: none Notes: planted; Native to California Sierra Nevadas, but not locally native</p>
<p>Family: Saxifragaceae Scientific Name: <i>Deutzia scabra</i> Common Name: Deutzia Location: JOMU - House: victorian garden and adobe Habitat Type: Garden Growth Form: shrub Flowering Period: May Status: none Notes: planted, not historic</p>

<p>Family: Saxifragaceae Scientific Name: <i>Heuchera micrantha</i> Common Name: Alum root, Coral bells Location: JOMU - House: Behind Adobe, south side</p> <p>Habitat Type: Garden Growth Form: herb Flowering Period: spring Status: none Notes: planted, not historic</p>
<p>Family: Saxifragaceae Scientific Name: <i>Hydrangea macrophylla</i> Common Name: Big leaf hydrangea Location: JOMU - House: North bed at visitor center</p> <p>Habitat Type: Garden Growth Form: Herb Flowering Period: Spring Status: none Notes: Planted, not historic</p>
<p>Family: Saxifragaceae Scientific Name: <i>Lithophragma affine</i> Common Name: Common woodland star Location: JOMU - Wanda: All quadrants in woodland and sometimes open grassland; Habitat Type: Woodland/Grassland Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Saxifragaceae Scientific Name: <i>Lithophragma heterophyllum</i> Common Name: Hillside woodland star Location: JOMU - Wanda: NW, in shaded woodland; EUON - East forest, slide area Habitat Type: Woodland/Forest Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>

<p>Family: Saxifragaceae Scientific Name: <i>Saxifraga californica</i> Common Name: California saxifrage Location: JOMU - Wanda: NW, in shaded woodland</p> <p>Habitat Type: Woodland Growth Form: Herb Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Scrophulariaceae Scientific Name: <i>Bellardia trixago</i> Common Name: Bellardia Location: JOMU - Wanda: All quadrants, on roads</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: April-June Status: CalEPPC-B Notes: none</p>
<p>Family: Scrophulariaceae Scientific Name: <i>Castilleja affinis ssp. affinis</i> Common Name: Indian paintbrush Location: JOMU - Wanda: NW-NE, Chaparral, dry, exposed areas</p> <p>Habitat Type: Chaparral Growth Form: sub-shrub Flowering Period: April-June Status: none Notes: none</p>
<p>Family: Scrophulariaceae Scientific Name: <i>Castilleja attenuata</i> Common Name: Valley tassels Location: JOMU - Wanda: NE-SE, along roads and paths;</p> <p>Habitat Type: Woodland/Ruderal Growth Form: herb Flowering Period: March-May Status: none Notes: none</p>

<p>Family: Scrophulariaceae Scientific Name: <i>Castilleja exserta</i> ssp. <i>exserta</i> Common Name: Purple owl's clover Location: JOMU - Wanda: NE-NE, on woodland hillsides, potentially in south as well</p> <p>Habitat Type: Woodland Growth Form: herb Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Scrophulariaceae Scientific Name: <i>Castilleja foliolosa</i> Common Name: Woolly owl's clover Location: JOMU - Wanda: NW-NE, on exposed slopes in chaparral</p> <p>Habitat Type: Chaparral Growth Form: sub-shrub Flowering Period: Feb-May Status: none Notes: none</p>
<p>Family: Scrophulariaceae Scientific Name: <i>Castilleja rubicundula</i> ssp. <i>lithospermoides</i> Common Name: Cream sacs Location: JOMU - Wanda: NE, two populations in grassy openings in woodland, below wildflower trail between markers 3 and 4</p> <p>Habitat Type: Woodland Growth Form: herb Flowering Period: April-June Status: Ub - 3-5 localities known in East Bay Notes: none</p>
<p>Family: Scrophulariaceae Scientific Name: <i>Collinsia heterophylla</i> Common Name: Purple chinese houses Location: JOMU - Wanda: NW-NE, Along roads and trails, potentially in south too</p> <p>Habitat Type: Woodland Growth Form: herb Flowering Period: April-May Status: none Notes: none</p>

<p>Family: Scrophulariaceae Scientific Name: <i>Collinsia sparsiflora</i> var. <i>sparsiflora</i> Common Name: Blue-eyed mary Location: JOMU - Wanda: NE, woodland hillsides</p> <p>Habitat Type: Woodland Growth Form: herb Flowering Period: April-May Status: Ub - 3-5 localities known in East Bay Notes: none</p>
<p>Family: Scrophulariaceae Scientific Name: <i>Kickxia elatine</i> Common Name: Fluellin Location: JOMU - House: Fields, vineyard, orchards</p> <p>Habitat Type: Ruderal/Orchard Growth Form: herb Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Scrophulariaceae Scientific Name: <i>Linaria canadensis</i> Common Name: Blue toadflax Location: JOMU - Wanda: NE, one patch in chaparral</p> <p>Habitat Type: Chaparral Growth Form: herb Flowering Period: April-May Status: 3-5 localities known in East Bay Notes: none</p>
<p>Family: Scrophulariaceae Scientific Name: <i>Mimulus aurantiacus</i> Common Name: Sticky monkeyflower Location: JOMU - Wanda: NW, NE, in chaparral; EUON - East side slide area</p> <p>Habitat Type: Chaparral/Forest Growth Form: Shrub Flowering Period: April-July Status: none Notes: none</p>

<p>Family: Scrophulariaceae Scientific Name: <i>Scrophularia californica ssp. californica</i> Common Name: Figwort Location: JOMU - Wanda: SW, along creek, probably elsewhere as well; Grave: Riparian; EUON - East side slide area Habitat Type: Riparian/Forest Growth Form: herb Flowering Period: March-April Status: none Notes: none</p>
<p>Family: Scrophulariaceae Scientific Name: <i>Triphysaria pusilla</i> Common Name: Dwarf owl's clover Location: JOMU - Wanda: All quadrants, along roads Habitat Type: Ruderal Growth Form: herb Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Scrophulariaceae Scientific Name: <i>Veronica persica</i> Common Name: Persian speedwell Location: JOMU - Wanda: SW, on road; Grave: Orchard; EUON - Ruderal, disked areas Habitat Type: Ruderal Growth Form: herb Flowering Period: March-May Status: none Notes: none</p>
<p>Family: Simaroubiaceae Scientific Name: <i>Ailanthus altissima</i> Common Name: Tree of heaven Location: JOMU - Wanda: NE-SE, many still persisting along hillsides above road and below train tracks Habitat Type: Ruderal/Woodland Growth Form: Tree Flowering Period: May-July Status: CalEPPC-A2 Notes: none</p>

<p>Family: Solanaceae Scientific Name: <i>Nicotiana glauca</i> Common Name: Tree tobacco Location: JOMU - House: To west of easy access path above apple orchard</p> <p>Habitat Type: Garden Growth Form: Shrub Flowering Period: Spring Status: none Notes: Planted, not historic</p>
<p>Family: Solanaceae Scientific Name: <i>Solanum americanum</i> Common Name: Small-flowered nightshade Location: JOMU - Wanda: NW, forest just above train tracks; Grave: Riparian EUON - East slide area</p> <p>Habitat Type: Forest Growth Form: Shrub-Vine Flowering Period: June-August Status: NOX-Non Rated Notes: none</p>
<p>Family: Solanaceae Scientific Name: <i>Solanum umbelliferum</i> Common Name: Blue-witch nightshade Location: JOMU - Wanda: NE, in chaparral, and SW, riparian; EUON - East slide area</p> <p>Habitat Type: Chaparral/Forest/Riparian Growth Form: Shrub-Vine Flowering Period: March-June Status: none Notes: none</p>
<p>Family: Sterculiaceae Scientific Name: <i>Fremontodendron californica</i> Common Name: Flannel bush Location: JOMU - House: Native plant garden west of Franklin Creek</p> <p>Habitat Type: Garden Growth Form: Shrub Flowering Period: spring Status: none Notes: Planted, not historic</p>

<p>Family: Tamaricaceae Scientific Name: <i>Tamarix gallica</i> Common Name: Tamarisk Location: JOMU - House: Along main road east of Giant Sequoia</p> <p>Habitat Type: Garden Growth Form: Tree Flowering Period: Summer Status: none Notes: Planted, Historic</p>
<p>Family: Taxodiaceae Scientific Name: <i>Sequoia sempervirens</i> Common Name: Coast redwood Location: JOMU - Wanda: NE, in main parking area; House: Grove located on east side of Franklin creek, near south border of park; EUON - above pool</p> <p>Habitat Type: Garden/Ruderal Growth Form: Tree Flowering Period: N/A Status: none Notes: Planted, not occurring here naturally</p>
<p>Family: Taxodiaceae Scientific Name: <i>Sequoiadendron giganteum</i> Common Name: Giant sequoia Location: JOMU - House: Across from carriage house; Grave: relict ornamental tree</p> <p>Habitat Type: Orchard Growth Form: Tree Flowering Period: N/A Status: none Notes: Planted, Historic. Also planted at EUON</p>
<p>Family: Thymelaeaceae Scientific Name: <i>Daphne odora</i> Common Name: Winter daphne Location: JOMU - House: Adobe garden</p> <p>Habitat Type: Garden Growth Form: shrub Flowering Period: winter Status: none Notes: Planted</p>

<p>Family: Typhaceae Scientific Name: <i>Typha angustifolia</i> Common Name: Narrow-leafed cattail Location: JOMU - Wanda: NE, along tracks, below hill cut</p> <p>Habitat Type: Ruderal Growth Form: Herb Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Typhaceae Scientific Name: <i>Typha latifolia</i> Common Name: Broad-leafed cattail Location: EUON - East slide area</p> <p>Habitat Type: Forest Growth Form: Herb Flowering Period: May-July Status: none Notes: none</p>
<p>Family: Ulmaceae Scientific Name: <i>Ulmus pumila</i> Common Name: Siberian elm Location: JOMU - House: At well by parking lot, and by oval</p> <p>Habitat Type: Garden Growth Form: Tree Flowering Period: n/a Status: none Notes: Planted, not historic</p>
<p>Family: Urticaceae Scientific Name: <i>Urtica dioica</i> ssp. holosericea Common Name: Hoary nettle, Stinging nettle Location: JOMU - House: Riparian; Grave: Riparian; EUON - East slide area Habitat Type: Forest/Riparian Growth Form: Herb Flowering Period: June-Aug Status: none Notes: none</p>

<p>Family: Urticaceae Scientific Name: <i>Urtica urens</i> Common Name: Dwarf nettle Location: JOMU - Wanda: NW-NE, shaded forest, potentially in the south as well; EUON - Ruderal, NW Habitat Type: Forest/Ruderal Growth Form: Herb Flowering Period: June-Aug Status: none Notes: none</p>
<p>Family: Valerianaceae Scientific Name: <i>Centranthus ruber</i> Common Name: Red valerian Location: JOMU - House: Adobe Garden Habitat Type: Garden Growth Form: Herb Flowering Period: Spring-Summer Status: CalEPPC-? Notes: none</p>
<p>Family: Valerianaceae Scientific Name: <i>Plectritis congesta</i> Common Name: Seablush Location: JOMU - Wanda: NE-NW, along trails and deer tracks, usually in moist areas (very commonly found with <i>Collinsia</i>) Habitat Type: Woodland Growth Form: Herb Flowering Period: April-May Status: none Notes: none</p>
<p>Family: Valerianaceae Scientific Name: <i>Plectritis ciliosa</i> ssp. <i>ciliosa</i> Common Name: Long-spurred plectritis Location: JOMU - Wanda: NW, along steep hillside near fence line, open woodland Habitat Type: Woodland Growth Form: Herb Flowering Period: March-April Status: none Notes: none</p>

<p>Family: Verbenaceae Scientific Name: <i>Phyla nodiflora</i> var. <i>nodiflora</i> Common Name: Common lippia Location: JOMU - House: Lawn weed near house; EUON - Lawn weed near Tao House Habitat Type: Ruderal Growth Form: Herb Flowering Period: May-July Status: CalEPPC-N Notes: none</p>
<p>Family: Viscaceae Scientific Name: <i>Phoradendron macrophyllum</i> Common Name: Big-leaf mistletoe Location: JOMU - Wanda: NE, in English walnut trees below train tracks; House: Orchard trees; EUON - West walnut orchard Habitat Type: Orchard/Woodland Growth Form: Parasite Flowering Period: N/A Status: Ub - 3-5 localities known wild in the East Bay Notes: Typically grows in cultivated fruit trees, uncommon elsewhere</p>
<p>Family: Viscaceae Scientific Name: <i>Phoradendron villosum</i> Common Name: Oak mistletoe Location: JOMU - Wanda: All quadrants, common oak parasite; EUON - East forest Habitat Type: Woodland/Forest Growth Form: Parasite Flowering Period: N/A Status: none Notes: Typically grows in native <i>Quercus</i> spp.</p>
<p>Family: Vitaceae Scientific Name: <i>Parthenocissus vitacea</i> Common Name: Woodbine, Virginia creeper Location: JOMU - House: Riparian Habitat Type: Riparian Growth Form: Vine Flowering Period: N/A Status: none Notes: Common weed of Eastern U.S.</p>

Family: Vitaceae

Scientific Name: *Vitis vinifera*

Common Name: Grape

Location: **JOMU** - Wanda: In SE corner of property near stables, on fence; House: in vineyard between plum orchard and Franklin creek;

EUON - West walnut orchard, growing in the crook of a Walnut tree

Habitat Type: Orchard/Ruderal

Growth Form: Vine

Flowering Period: N/A

Status: none

Notes: Planted, not historic, but representation

Family: Zygophyllaceae

Scientific Name: *Tribulus terrestris*

Common Name: Puncturevine

Location: **JOMU** - Wanda: NE, main parking area; House: Orchards; Grave; Orchard;

EUON - Orchards, disked areas

Habitat Type: Orchard/Ruderal

Growth Form: Herb

Flowering Period: June-Aug

Status: NOX-C

Notes: none

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